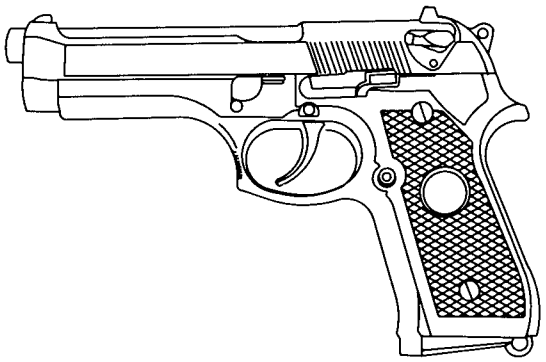
ARMY TM 9-1005-317-23&P
NAVY SW 370-AA-MMO-010/9mm
AIR FORCE TO 11W3-3-5-4
MARINE CORPS TM 1005A-23&P/2A
COAST GUARD COMDTINST M8370.7A

SUPERSEDES COPY DATED 31 JANUARY 1986

See Page i For Details

TECHNICAL MANUAL
UNIT AND INTERMEDIATE DIRECT SUPPORT MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)
PISTOL, SEMIAUTOMATIC, 9mm, M9
(1005-01-118-2640)



DEPARTMENT OF THE ARMY, NAVY, AND AIR FORCE
HEADQUARTERS, MARINE CORPS
COMMANDANT, COAST GUARD

OCTOBER 1987

WARNING

Read this manual carefully before performing required maintenance.

The M9 Pistol incorporates single and double action modes of fire. Anytime the trigger is pulled with the decocking/safety lever in the fire (up) position and a round in the chamber, the pistol will fire from the hammer down, half cock or full cock positions.

Before starting an inspection, and/or performing any maintenance procedures, be sure to clear the pistol. Do not squeeze trigger until the pistol has been cleared. Inspect the chamber to be sure that it is empty. Check to see that there are no obstructions in the barrel. Do not keep live ammunition near work/maintenance area.

Safety glasses, hearing protection, and protective clothing should be worn when repairing, firing, or cleaning the pistol.

Protective gloves should be worn when working with cleaning solvents.

For further information on safety, care, and handling of ammunition, Army users refer to TM 9-1005-317-10; Navy and Coast Guard users refer to OP 4 or OP 5.

The decocking/safety lever can be moved to the fire (up) position with a minimum amount of force. This could happen during removal of the pistol from the M12 holster if carried in the safe (down) position and/or during careless handling.

Perform detail disassembly only to the level of maintenance required/authorized to identify and correct deficiencies.

A potential safety hazard exists if the firing pin block is missing or does not return flush with the slide surface after firing.

During removal of the lanyard loop spring pin, be sure the punch is left in place to prevent injury to personnel or accidental loss of parts.

During removal of the shouldered straight pin, carefully allow the mainspring to expand to prevent injury to personnel or accidental loss of parts.

Use care when removing recoil spring and spring guide. Because of the amount of compression, assembly will be released under spring tension and could cause possible injury to personnel, or become damaged or lost.

Cover the top of the trigger cavity to prevent ejection or loss of the trigger spring, or possible injury to personnel during removal of the trigger pin.

When applying pressure to the center/coil area of trigger spring, use care to prevent ejection of trigger spring as this could cause possible injury to personnel.

For further information of first aid, refer to FM 21-11.

TECHNICAL MANUAL
ARMY NO. 9-1005-317-23&P*
NAVY SW 370-AA-MMO-010/9mm*
TECHNICAL ORDER
AIR FORCE NO. 11W3-3-5-4*
TECHNICAL MANUAL
MARINE CORPS NO. 1005A-23&P/2A*
COAST GUARD COMDTINST M8370.7A*

DEPARTMENT OF THE ARMY, NAVY
AND AIR FORCE
HEADQUARTERS, MARINE CORPS
COMMANDANT, COAST GUARD

HEADQUARTERS, DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 16 October 1987

UNIT AND INTERMEDIATE DIRECT SUPPORT MAINTENANCE MANUAL
(Including Repair Parts and Special Tools List)

for

PISTOL, SEMIAUTOMATIC, 9mm, M9
(1005-01-118-2640)

Current as of 27 July 1987 for Appendix C

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes, or if you know of a way to improve the procedures, please let us know.

Army users mail your letter, DA Form 2028 (Recommended Changes to Equipment Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, U.S. Army Armament, Munitions and Chemical Command, ATTN: AMSMC-MAS, Rock Island, IL 61299-6000.

Navy users submit Recommended Changes to Publications to: Commanding Officer, Naval Weapons Support Center, Code 20, Crane, IN 47522-5020.

Air Force users submit AFTO Form 22, Technical Order System Publications Improvement Report and Reply, to: WR-ALC/MMEDT, Robins AFB, GA 31098-5000.

Marine Corps users submit NAVMC 10772 Form to: Commanding General, Marine Corps Logistics Base (Code 850), Albany, GA 31704-5000.

Coast Guard users submit Publications Correction/Change Report form CG 4394 to: Commandant, U.S. Coast Guard (G-ODO-2), Washington, DC 20593-0001.

A reply will be furnished to you.

*This manual supersedes Army TM 9-1005-317-23&P, Navy SW 370-AA-MMO-010/9mm, Air Force TO 11W3-3-5-4, Marine Corps TM 9-1005-23&P/2 and Coast Guard COMDTINST M8370.7, 31 January 1986.

TABLE OF CONTENTS

HOW TO USE THIS MANUAL

GENERAL

In order to use this manual efficiently, there are several things you need to know.

1. You must familiarize yourself with the entire maintenance procedure before beginning the maintenance task.

2. All references in this manual are either to paragraphs, pages, or to another manual.

3. The left side of the pistol is identified by the disassembly lever.

4. Whenever the male gender is mentioned in this manual, it also pertains to all joint service personnel.

INDEXES

This manual is organized to help you quickly find the information you need. There are several useful indexes.

1. Front Cover Index. Is a tabbed index of items used often. Keyed to tabbed pages in the manual.

2. Table of Contents. Lists in order all chapters, sections, and appendixes. Gives page references.

3. Nomenclature Cross-Reference List. Gives an alphabetical list of the common names that are substituted for the official nomenclature in the manual.

4. Chapter Overviews. Summarizes material covered in the chapter.

5. Troubleshooting Symptom Index. Lists in alphabetical order parts of the weapon with possible malfunctions. References pages of the troubleshooting table.

6. Alphabetical Index. Located at the end of the manual. An extensive subject index for everything in the manual. It gives page references.

MAINTENANCE PROCEDURES

There are two maintenance chapters:

Army personnel use chapter two for unit maintenance procedures and chapter three for intermediate direct support maintenance procedures.

Navy personnel use chapter two for organizational maintenance procedures and chapter three for intermediate maintenance procedures.

Air Force personnel: Only Air Force Specialty Code 753XX Combat Arms Training and Maintenance Specialists, Technicians, and Gunsmiths are authorized to perform maintenance procedures contained in this manual.

Marine Corps personnel use chapter two for organizational (2d echelon) maintenance procedures and chapter three for intermediate (3d echelon) maintenance procedures.

Coast Guard personnel refer to COMDTINST 8000.2.

MAINTENANCE PROCEDURES (cont)

Each maintenance chapter has an initial setup containing a list of the following things you will need in order to do your maintenance task:

1. Tools and Special Tools. For standard and special tools, see appendixes B and C. Army and Marine Corps users are to use either the Small Arms Tool Set (SC 5180-95-CL-A07) or the Basic Field Maintenance (Less Power) Small Arms Shop Set (SC 4933-95-CL-A11). Navy, Air Force and Coast Guard users are authorized to use the common tools listed in paragraphs 2-1 and/or 3-1.

2. Materials/Parts. Lists expendable materials and 100 percent replaceable parts. Each material or part is followed by a part number or appendix reference. If more than one part is needed, the quantity needed precedes the part number or reference.

3. References. Lists other publications containing necessary information.

4. Equipment Condition. Lists conditions to be met before starting the procedure.

Step-by-step procedures are illustrated procedures for maintenance authorized by the MAC, appendix B.

CHAPTER 1
INTRODUCTION

Chapter Overview

This chapter contains the following: General Information, Equipment Description and Data, and Principles of Operation for the pistol.

Section I. GENERAL INFORMATION

1-1. SCOPE.

a. Type of Manual. Unit and Intermediate Direct Support Maintenance Manual including Repair Parts and Special Tools List.

b. Model Number and Equipment Name. M9, 9mm, Semiautomatic Pistol.

c. Purpose of Equipment: Provides personal defense protection.

1-2. MAINTENANCE FORMS AND RECORDS.

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-750, The Army Maintenance Management System (TAMMS).

Navy and Coast Guard users refer to applicable Preventive Maintenance System Instructions.

Air Force users refer to TO 11W-1-10 and AFTO Form 105 for documenting weapon maintenance.

Marine Corps personnel refer to TM 4700-15/1 for equipment forms and record procedures.

1-3. DESTRUCTION OF MATERIEL TO PREVENT ENEMY USE.

Only your commanding officer can give the order to destroy materiel to prevent enemy use. Refer to TM 750-244-7.

1-4. NUCLEAR, BIOLOGICAL AND CHEMICAL (NBC).

General procedures can be found in FM 3-4, FM 3-5, and FM 3-87.

1-5. PREPARATION FOR STORAGE AND SHIPMENT.

Requirements for storage and shipment are listed in paragraph 2-15. Requirements for administrative storage will be in accordance with DOD 5100.76-M, Physical Security of Sensitive Conventional Arms, Ammunition, and Explosives.

1-6. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIRs).

If your 9mm pistol needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance.

Army users submit an SF 368 (Quality Deficiency Report) and mail it to: Commander, U.S. Army Armament, Munitions and Chemical Command, ATTN: AMSMC-QAD, Rock Island, IL 61299-6000.

Navy users submit Quality Deficiency Report to: Commanding Officer, Naval Weapons Support Center, Code 20, Crane, IN 47522-5020.

Air Force users submit Material Deficiency Report (MDR) to: DIR MAT MGT ROBINS AFB GA//MMIRFT// and Quality Deficiency Report to: DIR MAT MGT ROBINS AFB GA//QAY//.

Marine Corps users submit QDRs on SF 368 in accordance with MCO 4855.10 to: Commanding General, Marine Corps Logistics Base (Code 856). Albany, GA 31704-5000.

Coast Guard users submit QDRs (SF 368) in accordance with COMDTINST M4855.1 to: Commandant, U.S. Coast Guard, (G-ODO-2), Washington, DC 20593-0001.

We'll send you a reply.

1-7. NOMENCLATURE CROSS-REFERENCE LIST.

OFFICIAL	COMMON
Magazine, Cartridge	Magazine
Extractor	Extractor/Loaded Chamber Indicator
Slide Assembly	Slide
Magazine Catch Assembly	Magazine Release Button
Cartridge	Round
Safety w/Lever	Decocking/Safety Lever
Screw, Machine	Grip Screw
Spring, Helical, Torsion Slide Stop	Slide Stop Spring
Spring, Helical, Torsion Sear	Sear Spring
Spring, Helical, Compression Mainspring	Mainspring
Pin, Straight, Headless Sear	Sear Pin
Spring, Helical, Torsion Trigger	Trigger Spring
Pin, Straight, Headed Trigger	Trigger Pin
Pin, Straight, Hammer Release Lever	Headed Straight Pin
Pin, Spring, Lanyard Loop	Spring Pin
Pin, Shoulder, Headless: Lanyard Loop	Shoulder Straight Pin

Section II. EQUIPMENT DESCRIPTION AND DATA

1-8. EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES.

The M9 pistol is a semiautomatic, magazine fed, recoil operated, double action pistol, chambered for the 9mm cartridge.

WARNING

The M9 Pistol incorporates single and double action modes of fire. Anytime the trigger is pulled with the decocking/safety lever in the fire (up) position and a round in the chamber, the pistol will fire from the hammer down, half cock or full cock positions.

a. Double/Single Action. For double action, pulling the trigger will cock the hammer and immediately release it, discharging the first chambered round. To fire the first chambered round in single action, the hammer must be manually cocked to the rear before pulling the trigger. All shots after the first one will be fired single action because the slide automatically recocks the hammer after each shot.

b. Magazine. Has a 15 round capacity.

c. Extractor/Loaded Chamber Indicator. When there is a round in the chamber, the upper surface of the extractor protrudes from the right side of the slide. In the dark, the protrusion can be felt by touch.

WARNING

A potential safety hazard exists if the firing pin block is missing or does not return flush with the slide surface after firing.

d. Firing Pin Block. When the trigger is not pulled, the firing pin block secures the firing pin and prevents it from moving forward, even if the pistol is dropped.

WARNING

The decocking/safety lever can be moved to the fire (up) position with a minimum amount of force. This could happen during removal of the pistol from the M12 holster if carried in the safe (down) position and/or during careless handling.

e. Decocking/Safety Lever. Allows safe operation of the pistol by both right and left-handed users, and lowers the hammer without causing an accidental discharge. When the decocking/safety lever is in the up position, the pistol is ready to fire. When hammer is cocked, it may be safely lowered by moving the decocking/safety lever to the safe (down) position.

f. Lanyard Loop. Compatible with standard lanyards.

g. Receiver. The front and back straps of the grip are vertically grooved to ensure a firm grip even with wet hands, or under conditions of rapid combat fire. The trigger guard is extended, and the concave forward portion is grooved for a firm grip when using two hands or gloves.

h. Disassembly Lever and Disassembly Button. Allows for quick field stripping, and at the same time prevents accidental disassembly.

i. Slide Stop. Holds the slide to the rear after the last round is fired. It can also be manually operated.

1-9. WARRANTY INFORMATION. The M9, 9mm Pistol is warranted by Beretta U.S.A. Corporation for 18 months from date of government acceptance for conformance to performance requirements. Warranty starts on the acceptance date found on DD 250. Warranty start date is the same as the acceptance date on the DD 250 and is contained in columns 76-80 of the weapons serial number control card. Submit all suspected warranty claims on SF 368 (QDR) to your appropriate command. (Refer to TB 9-1005-317-23.)

1-10. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS.

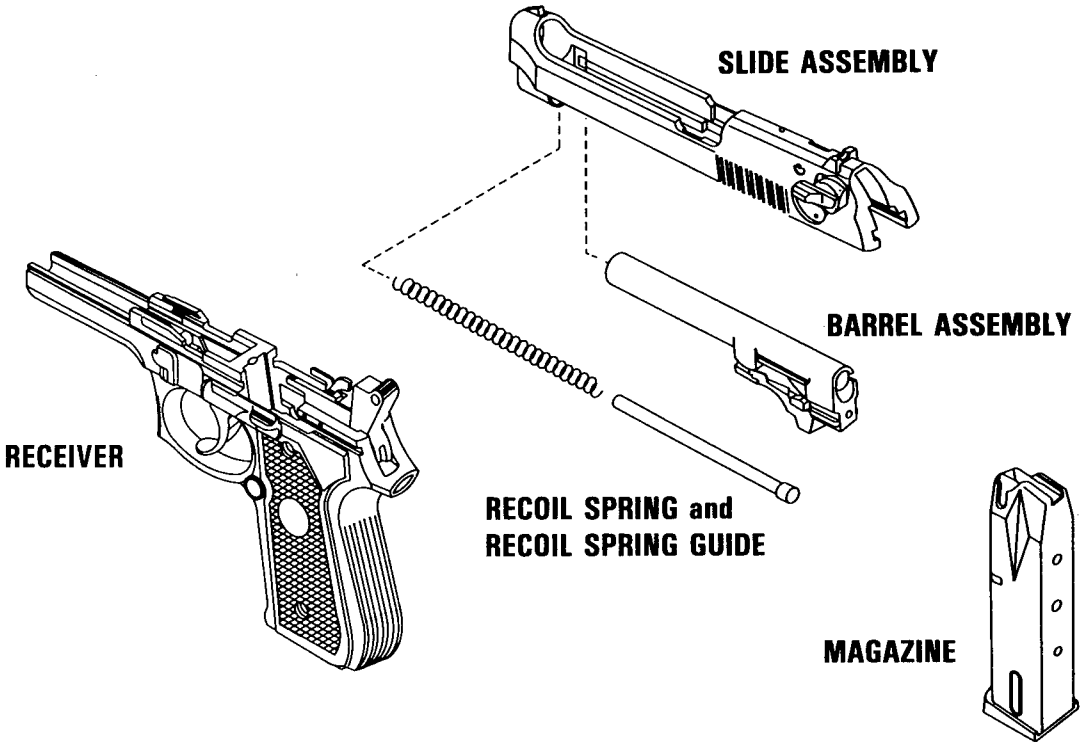
a. Slide Assembly. Houses the firing pin, striker, and extractor, and cocks hammer during recoil cycle.

b. Barrel Assembly. Houses cartridge for firing and directs projectile. Locking block locks barrel in position during firing.

c. Recoil Spring and Recoil Spring Guide. Absorbs recoil and returns the slide assembly to its forward position.

d. Receiver. Serves as a support for all major components. Controls action of pistol through the four major components.

e. Magazine. Holds 15 cartridges in place for feeding and chambering.



1-11. EQUIPMENT DATA.

Caliber	9 x 19mm (9mm NATO)
System of Operation	short recoil, semiautomatic
Locking system	falling locking block
Length	217mm (8.54 in.)
Width	38mm (1.50 in.)
Height	140mm (5.51 in.)
Weight (w/15 round magazine)	1145 gr (40.89 oz)
Weight (w/empty magazine)	960 gr (33.86 oz)
Barrel length	125mm (4.92 in.)
Rifling	R.H., 6groove [pitch 250mm (approx 1 turn in 10 in.)]
Muzzle velocity	375 meters/sec (1230.3 ft/sec)
Muzzle energy	569.5 newton meters (420 ft lbs)
Maximum effective range	50 meters (54.7 yards)
Maximum range	1800 meters (1969.2 yards)
Trigger Pull	
Single Action	4.0 to 6.4 lbs
Double Action	9.9 to 16.1 lbs
Front Sight	blade, integral with slide
Rear Sight	notched bar, dovetailed to slide
Sight radius	158mm (6.22 in.)
Safety features	- decocking/safety lever - firing pin block
Hammer (half cock)	helps prevent accidental discharge
Magazine	staggered, 15 round capacity
Slide	held open upon firing of last round
Grips	plastic, checkered

1-12. SAFETY, CARE, AND HANDLING (AMMUNITION ONLY).

WARNING

For further information on safety care, and handling of ammunition, Army users refer to TM 9-1005-317-10; Navy and Coast Guard users refer to OP 4 or OP 5.

Shipping and Storage Data:	
Quantity Distance Class	1
Storage Compatability Group	B, E, or N
Storage Code	Class V
DOT Shipping Code	C
DOT Designation	Small Arms Ammunition

Publications for firing, handling, care and preservation or destruction of ammunition are AR 385-63, TM 43-0001-27, and TM 9-1005-317-10.

Navy and Coast Guard users refer to OP 4 and OP 5.

Section III. PRINCIPLES OF OPERATION

1-13. GENERAL.

a. The M9 pistol has a short recoil system utilizing a falling locking block.

b. Upon firing, the pressure developed by the combustion gases recoils the slide and barrel assembly. After a short run, the locking block will stop the rearward movement of the barrel and release the slide which will continue its rearward movement. The slide will then extract and eject the fired cartridge case, cock the hammer and compress the recoil spring. The slide moves forward under recoil spring pressure feeding the next round from the magazine into the chamber.

c. The slide stop holds the slide and barrel assembly open after the last round has been fired and ejected.

CHAPTER 2
UNIT MAINTENANCE INSTRUCTIONS

Chapter Overview

This chapter contains information regarding repair parts, special tools, support equipment and instructions for service upon receipt, Preventive Maintenance Checks and Services (PMCS), troubleshooting, and maintenance to keep the pistol in good repair. Protecive clothing and gloves should be worn when repairing, firing or clearing the M9 pistol.

Section I. REPAIR PARTS, SPECIAL TOOLS, AND SUPPORT EQUIPMENT

2-1. COMMON TOOLS AND EQUIPMENT. For authorized common tools and equipment refer to the Modified Table of Organization and Equipment (MTOE) applicable to your unit. Navy, Air Force and Coast Guard users are authorized to use the following common tools:

Task	Paragraph	Tool
Maintenance of 9mm Pistol	2-11	None required
Maintenance of Receiver Assembly	2-12	Screwdriver
Maintenance of Magazine Catch Assembly	2-13	Screwdriver

2-2. SPECIAL TOOLS AND SUPPORT EQUIPMENT. There are no special tools for this item. Tools and test equipment are listed in appendix B of this manual. There is no Test, Measurement, and Diagnostic Equipment (TMDE) for this item.

2-3. REPAIR PARTS. Repair parts are listed and illustrated in appendix C of this manual.

Section II. SERVICE UPON RECEIPT

2-4. GENERAL. When a pistol is received, it is the responsibility of the user organization to determine whether the pistol has been properly prepared for service by the supplying organization and whether it is in condition to perform its mission.

2-5. SERVICE UPON RECEIPT OF MATERIEL.

WARNING

Before starting an inspection, and/or performing any maintenance procedures, be sure to clear the pistol. Do not squeeze the trigger until the pistol has been cleared. Inspect the chamber to be sure that it is empty. Check to see that there are no obstructions in the barrel. Do not keep live ammunition near work/maintenance area.

Unit maintenance personnel may perform limited maintenance. Inspect and test the pistol in accordance with the maintenance allocation chart in appendix B. After the required test/inspections are performed, the maintenance repairs within their capabilities may be completed. Unit maintenance may inspect and service the slide assembly, barrel assembly and receiver assembly. They may reverse the magazine catch assembly and replace pistol grips, grip screws and lock washers. (Coast Guard users are not authorized to reverse the magazine catch assembly.)

Table 2-1. Service Upon Receipt.

LOCATION	ITEM	ACTION	REMARKS
1. Container	Pistol	Check the container for damage prior to unpacking. Check unpacked equipment. a. Inspect the equipment for damage incurred during shipment. If the equipment has been damaged, report the damage on SF Form 364, Report of Discrepancy (ROD). b. Check to see whether the equipment has been modified, if applicable. c. Check the equipment against the packing slip to see if the shipment is complete. Report all discrepancies in accordance with the instructions of DA PAM 738-750. Army users submit an SF 368 (Quality Deficiency Report) to: Commander, U.S. Army Armament, Munitions and Chemical Command, ATTN: AMSMC-QAD, Rock Island, IL 61299-6000. Navy users submit Quality Deficiency Report to: Commanding Officer, Naval Weapons Support Center, Code 20, Crane, IN 47522-5020. Air Force users submit Material Deficiency Report (MDR) to: DIR MAT MGT ROBINS AFB GA//MMIRF// and Quality Deficiency Report to: DIR MAT MGT ROBINS AFB GA//QAY//. Marine Corps users submit QDRs on SF 368 in accordance with MCO 4877.10 to: Commanding General, Marine Corps Logistics Base (Code 856), Albany, GA 31704-5000. Coast Guard users submit QDRs (SF 368) in accordance with COMDTINST M4855.1 to: Commandant, U.S. Coast Guard (G-ODO-2), Washington, DC 20593-0001.	See Operator's manual: Army TM 9-1005-317-10 Navy SW 370-AA-OPI-010/9mm Air Force TO 11W3-3-5-1 Marine Corps TM 1005A-10/1 Coast Guard COMDTINST M8370.6

Table 2-1. Service Upon Receipt (cont).

LOCATION	ITEM	ACTION	REMARKS
2. Pistol	Barrel Assembly	Remove corrosion inhibitor from barrel.	
	Pistol	a. Field strip pistol and inspect for missing parts.	See operator's manual or para 2-11
		b. Clean and lubricate	See operator's manual or para 2-11
		c. Reassemble	See operator's manual or para 2-11
		d. Perform safety/function check.	

WARNING

Before performing the following safety/function check, clear the pistol and magazine in accordance with the unloading procedures in the operator's manual.

(1) Depress the slide stop. Insert an empty magazine into the pistol, and ensure that the magazine catch assembly locks the magazine in place.

(2) Retract the slide and release it. The magazine follower should push up on the slide stop, locking the slide to the rear.

(3) Rotate the decocking/safety lever to the fire (up) position. With a 1/16 inch punch, push up on the bottom side of the firing pin block. At the same time, push in on the firing pin striker with a 1/8 inch punch. Ensure the firing pin protrudes through the breech face of the slide.

(4) Depress the magazine release button allowing the magazine to fall free.

Table 2-1. Service Upon Receipt (cont).

LOCATION	ITEM	ACTION	REMARKS
		(5) Rotate the decocking/safety lever to the safe (down) position. Depress the slide stop allowing the slide to return fully forward. At the same time, the hammer should fall to the full forward position.	
		(6) Squeeze and release trigger. Firing pin block should move up and down. Hammer should not move. The trigger should return to the full forward position under spring tension.	
		(7) Place decocking/safety lever in fire (up) position.	
		(8) Squeeze trigger to check double action. Hammer should cock and fall.	
		(9) Squeeze trigger again and hold to rear. Manually retract and release slide while holding trigger to the rear. Release trigger, click should be heard, hammer should not fall.	
		(10) Squeeze trigger to check single action. Hammer should fall.	
		(11) If the above safety/function checks perform as indicated, pistol is mission ready. If the checks do not perform as indicated, evacuate pistol to intermediate direct support/next authorized repair level.	

Section III. UNIT PREVENTIVE MAINTENANCE CHECKS AND SERVICE (PMCS) QUARTERLY SCHEDULE

2-6. GENERAL. If the pistol has not been used for 90 days, perform PMCS in the operator's manual (ARMY TM 9-1005-317-10, NAVY SW 370-AA-OPI-010/9mm, AIR FORCE TO 11W3-3-5-1, MARINE CORPS TM 1005A-10/1, COAST GUARD COMDTINST M8370.6). If you see rust on a pistol, the PMCS will be done immediately.

2-7. UNIT PREVENTIVE MAINTENANCE CHECKS AND SERVICES.

a. General. The PMCS procedures are contained in table 2-2. They are arranged in logical sequence requiring a minimum amount of time and effort on the part of the person(s) performing them. They are arranged so there will be minimum interference between person(s) performing checks simultaneously on the same end item.

b. Item Number Column. Checks and services are numbered in chronological order regardless of interval. This column shall be used as a source of item numbers for the "TM Number" column on DA Form 2404, Equipment Inspection and Maintenance Worksheet, in recording results on PMCS.

c. Item To Be Inspected Column. The items listed in this column are divided into groups indicating the portion of the equipment of which they are a part; e.g., receiver assembly.

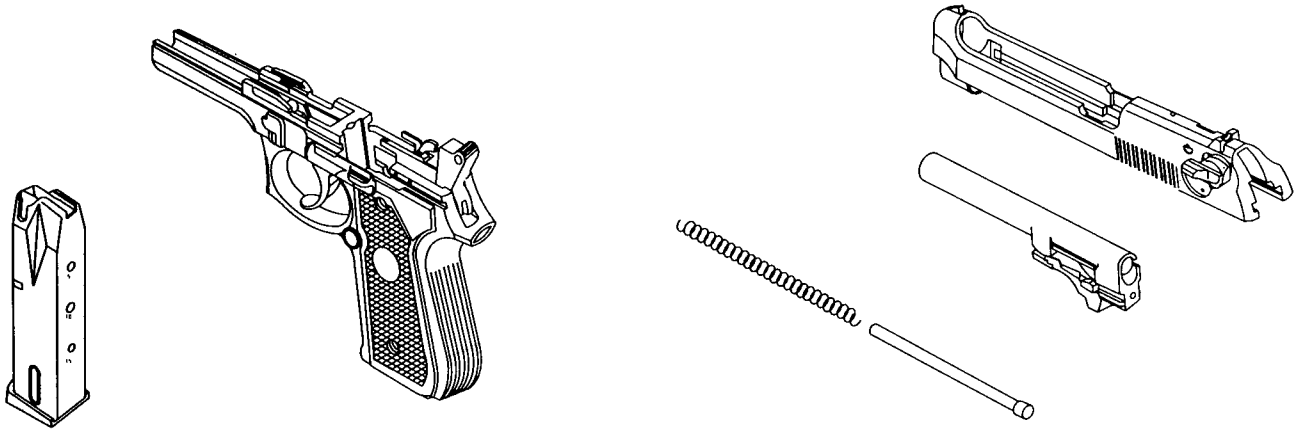
d. Procedures Column. This column contains a brief description of the procedure by which the check is to be performed. It contains all the information required to accomplish the checks and services.

Table. 2-2. Unit Preventive Maintenance Checks and Services (PMCS) Quarterly Schedule.

ITEM NO.	ITEM TO BE INSPECTED	PROCEDURES
		WARNING Before starting an inspection, and/or performing any maintenance procedures, be sure to clear the weapon. Do not squeeze the trigger until the pistol has been cleared. Inspect the chamber to be sure it is empty, and check to see that there are no obstructions in the barrel. Do not keep live ammunition near work/maintenance area.
		GENERAL: Inspect all assemblies for missing, broken, or loose parts. Inspect parts for cracks, dents, burrs, excessive wear, rust or corrosion. Make sure all items are cleaned and lubricated (ARMY TM 9-1005-317-10, NAVY SW 370-AA-OPI-010/9mm, AIR FORCE TO 11W3-3-5-1, MARINE CORPS TM 1005A-10/1, COAST GUARD COMDTINST M8370.6). Inspect external surfaces for adequate finish. Repair or replace authorized defective parts or evacuate to intermediate direct support maintenance/next authorized repair level.

Table. 2-2. Unit Preventive Maintenance Checks and Services (PMCS) (cont).

ITEM NO.	ITEM TO BE INSPECTED	PROCEDURES
1	Pistol	Field strip pistol in accordance with paragraph 2-11 or operator's manual.



2	Slide and Barrel Assembly	a. Visually inspect slide rails (1) for burrs or cracks. Slide should be free of burrs or cracks. b. Check operation by rotating decocking/safety lever (2) between the safe (down) and fire (up) positions. Decocking/safety lever should rotate freely between positions and lock in each position. c. Check firing pin block (3) for up and down movement. Firing pin block should move freely up and down with spring tension. d. Visually inspect barrel (4) and barrel lugs (5) for cracks and obstructions. Chamber area of barrel should be free of cracks, obstructions or excessive pitting. e. Check locking block (6) movement. Locking block should move up and down freely. Visually inspect locking block lugs (7) for cracks or burrs. Locking block lugs should be free of cracks or burrs. f. Visually inspect recoil spring (8) for flat spots. Recoil spring should not have flat spots. Visually inspect recoil spring (8) and recoil spring guide (9) for straightness and burrs. Recoil spring and recoil spring guide should not be bent or burred.

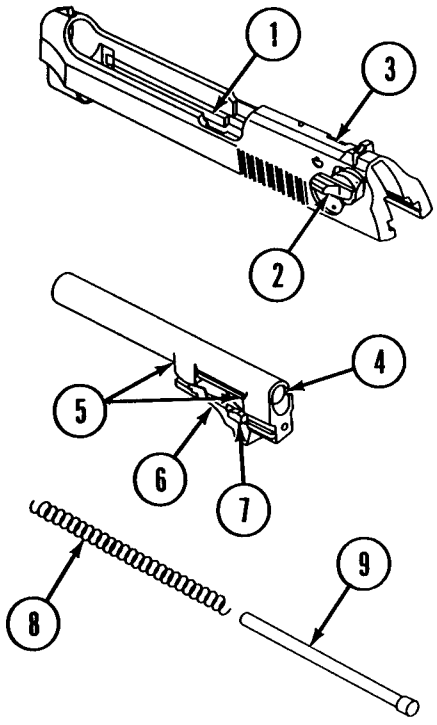
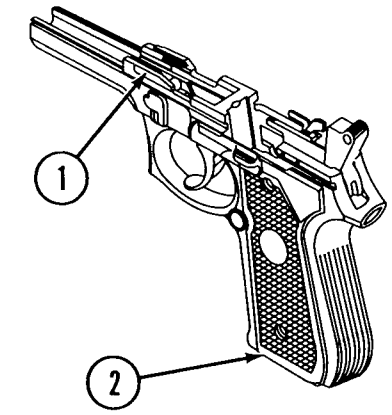
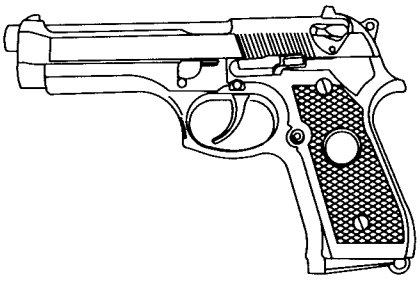


Table. 2-2. Unit Preventive Maintenance Checks and Services (PMCS) (cont).

ITEM NO.	ITEM TO BE INSPECTED	PROCEDURES
3	Receiver Assembly	a. Visually inspect to ensure that receiver rails (1) are not bent, cracked, or burred. Receiver rails should be straight and free from cracks or burrs. b. Visually inspect magazine well (2) for cleanliness and burrs. Magazine well should be clean and free of burrs.
4	Pistol M9	a. Assemble pistol (see para 2-11 or operator's manual). Ensure that parts are installed correctly and are in good working condition. Perform safety/function check (see SERVICE UPON RECEIPT OF MATERIEL, para 2-5). b. Check all moving parts for binding or hesitation. All moving parts should move freely without binding or hesitation.
5		Report all damaged or missing parts to intermediate direct support/next authorized repair level.





Section IV. TROUBLESHOOTING

2-8. UNIT MAINTENANCE TROUBLESHOOTING.

a. This section contains troubleshooting information for locating and correcting most of the operating troubles which may develop in the M9 pistol. Each malfunction for a part, assembly, or subassembly is followed by a list of tests or inspections which will help you to determine corrective actions to take. You should perform the tests/inspections and corrective actions in the sequence shown on pages 2-9 through 2-15. The Symptom Index is for page referencing only.

b. This manual cannot list all possible malfunctions that may occur, nor all tests or inspections and corrective actions. If a malfunction is not listed (except when malfunction and cause are obvious) or is not corrected by listed corrective actions, notify intermediate direct support/next authorized repair level.

2-9. TROUBLESHOOTING PROCEDURES. Refer to table 2-3 for malfunctions, tests or inspections, and corrective actions.

WARNING

Before performing any of the troubleshooting procedures, make sure the pistol is clear/unloaded. Do not keep live ammunition near work/maintenance area.

NOTE

In this table, evacuate to intermediate direct support also means evacuate to the next higher level of maintenance.

SYMPTOM INDEX

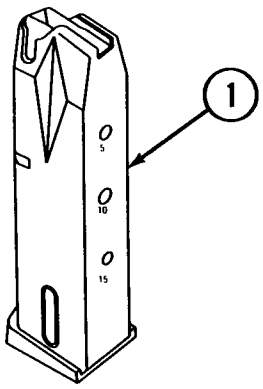
Table 2-3. Troubleshooting Procedures.

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

1. FAILURE TO FEED.

Step 1. Check for dirty and/or damaged magazine (1).

Clean with CLP (item 5, app D)/RBC (item 7, app D) or replace magazine.

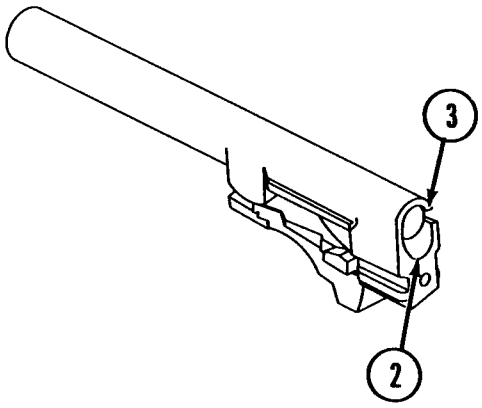


Step 2. Check for damaged feed ramp (2).

If damaged, evacuate pistol to intermediate direct support maintenance.

Step 3. Check for cartridge nose jamming against feed ramp (2).

Magazine lips are too tight. Replace magazine.



Step 4. Check for cartridge nose jamming against upper chamber (3).

Magazine lips are too open. Replace magazine.

Step 5. Check for slide riding over cartridge.

Magazine not seated properly. Check magazine catch assembly.

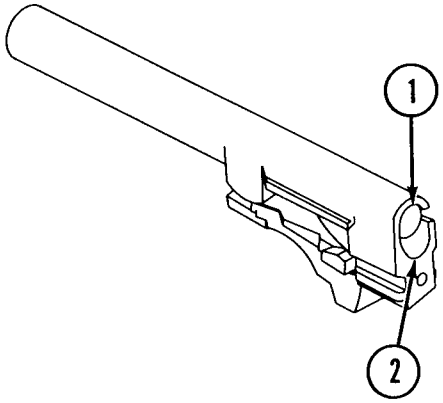
Table 2-3. Troubleshooting Procedures (cont).

MALFUNCTION / TEST OR INSPECTION / CORRECTIVE ACTION

2. AMMUNITION DOES NOT CHAMBER.

Step 1. Check for dirt or obstructions in chamber (1).

Clean with CLP (item 5, app D)/RBC (item 7, app D).

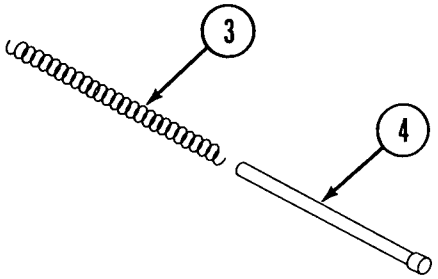


Step 2. Check for dirty or damaged ammunition.

Clean with a clean, dry cloth, or replace ammunition.

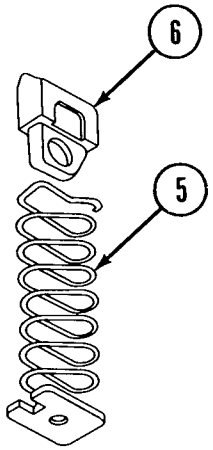
Step 3. Check for damaged feed ramp (2).

If damaged, evacuate pistol to intermediate direct support maintenance.



Step 4. Check to see if the recoil spring (3) and spring guide (4) are damaged or broken.

If damaged or broken, evacuate pistol to intermediate direct support maintenance.



Step 5. Check for damaged magazine spring (5) and/or follower (6).

If damaged, replace magazine.

Table 2-3. Troubleshooting Procedures (cont).

MALFUNCTION / TEST OR INSPECTION / CORRECTIVE ACTION

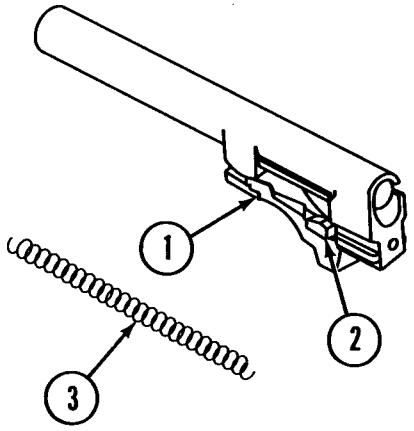
3. SLIDE DOES NOT LOCK FULLY FORWARD.

Step 1. Check for broken or damaged locking block (1) and lugs (2).

If damaged or broken, evacuate pistol to intermediate direct support maintenance.

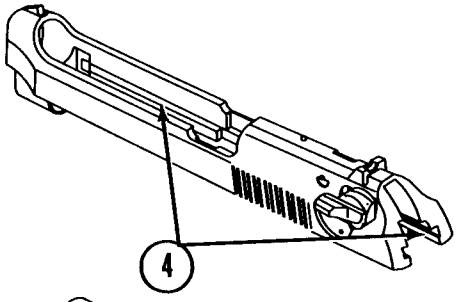
Step 2. Check for damaged or broken recoil spring (3).

If damaged or broken, evacuate pistol to intermediate direct support maintenance.



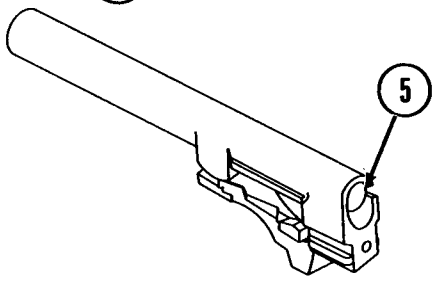
Step 3. Check for damaged or burred slide (4).

If slide grooves are damaged or burred, evacuate pistol to intermediate direct support maintenance.



Step 4. Check for dirty or damaged chamber (5).

If the chamber is dirty, clean using CLP (item 5, app D)/RBC (item 7, app D). If the chamber is damaged, evacuate pistol to intermediate direct support maintenance.



4. FAILURE TO FIRE.

Step 1. Check decocking/safety lever (1).

Place decocking/safety lever in fire (up) position.

Step 2. Check for faulty ammunition.

If heavily corroded or dented, replace ammunition.

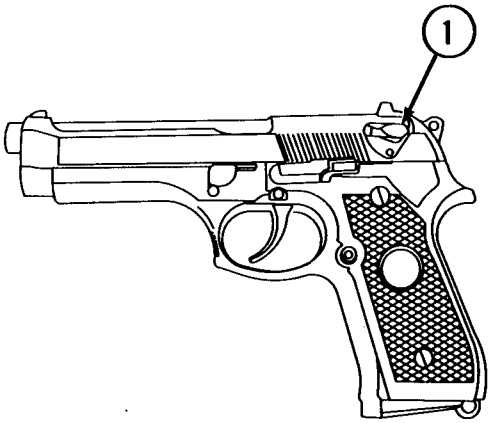


Table 2-3. Troubleshooting Procedures (cont).

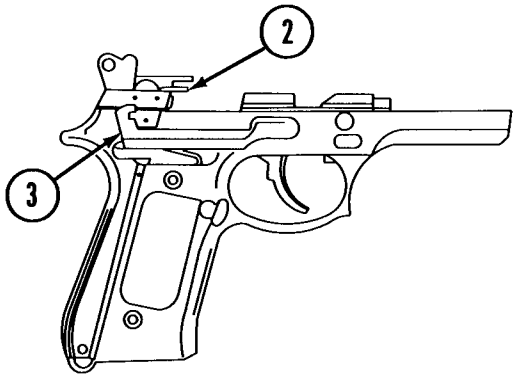
MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

Step 3. Check for broken firing pin block lever (2).

If broken, evacuate pistol to intermediate direct support maintenance.

Step 4. Check for broken trigger bar (3).

If broken, evacuate pistol to intermediate direct support maintenance.



Step 5. Check for free movement of firing pin and striker (refer to table 2-1, safety/function check).

If firing pin does not move back and forth freely under spring tension or does not protrude through the breech face of the slide, evacuate pistol to intermediate direct support maintenance.

Step 6. Check for damage to tip of firing pin.

If damaged, evacuate pistol to intermediate direct support maintenance.

5. SLIDE DOES NOT UNLOCK.

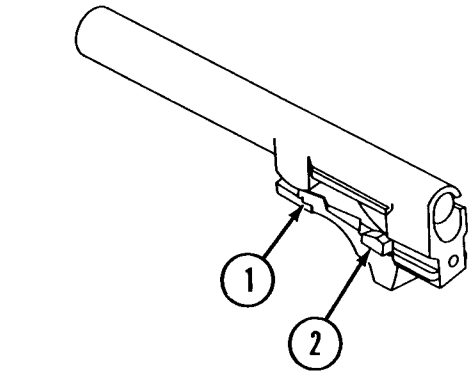
Step 1. Check for broken or damaged locking block (1) and lugs (2).

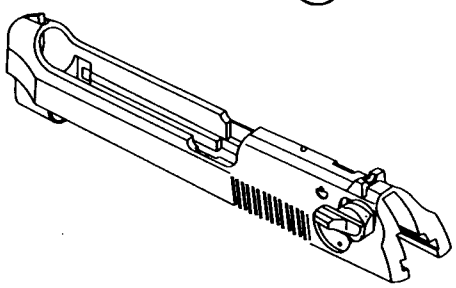
If broken or damaged, evacuate pistol to intermediate direct support maintenance.

Step 2. Check for obstructed, broken or damaged slide.

If obstructed, remove obstruction.

If broken or damaged, evacuate pistol to intermediate direct support maintenance.





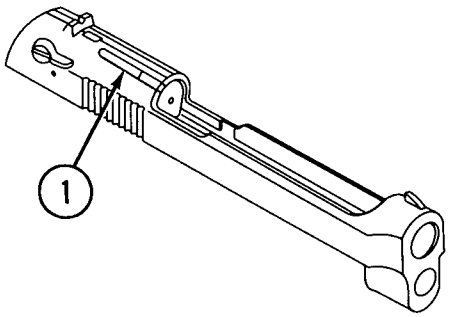
Step 3. Check for faulty ammunition; determined by short recoil.

Inspect bore and remove any obstructions. Replace ammunition.

Table 2-3. Troubleshooting Procedures (cont).

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

6. CARTRIDGE DOES NOT EXTRACT.



Step 1. Check for powder residue and/or dirt jamming extractor (1).

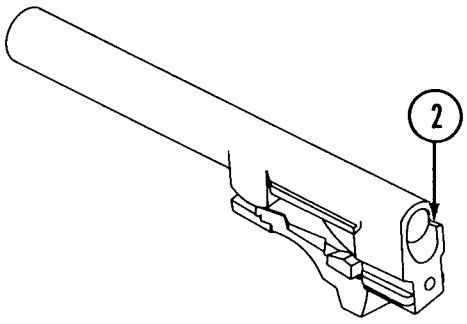
Clean with CLP (item 5, app D)/RBC (item 7, app D) and lubricate with CLP (item 5, app D) or LSA (item 15, app D).

Step 2. Check for defective extractor spring.

Evacuate pistol to intermediate direct support maintenance.

Step 3. Check for broken or damaged extractor (1).

Evacuate pistol to intermediate direct support maintenance.



Step 4. Check chamber (2) for dirt or corrosion.

Clean with CLP (item 5, app D)/RBC (item 7, app D) and lubricate with CLP (item 5, app D) or LSA (item 15, app D).

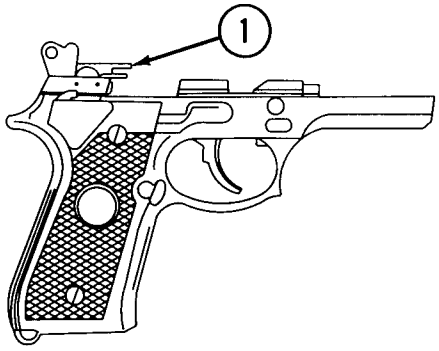
Step 5. Check for short recoil, defective cartridge.

Cartridge case or projectile may be lodged in chamber or bore. Inspect bore and remove any obstructions. Replace ammunition.

Table 2-3. Troubleshooting Procedures (cont).

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

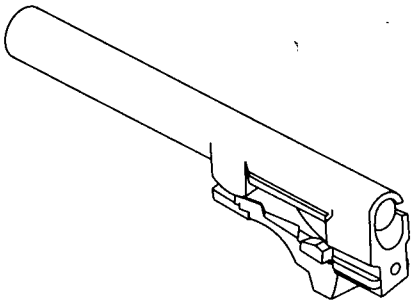
7. FAILURE TO EJECT.



Step 1. Check for broken or damaged ejector (1).

If broken or damaged, evacuate pistol to intermediate direct support maintenance.

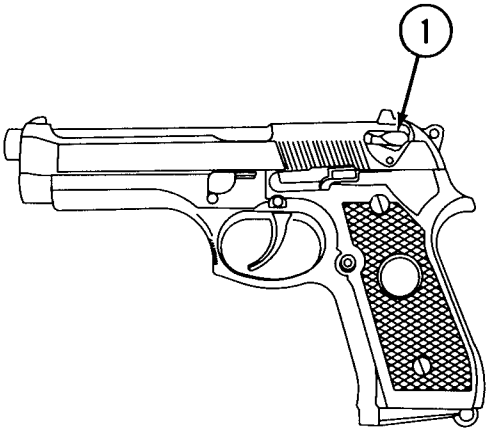
Step 2. Check for short recoil, defective cartridge.



Cartridge case or projectile may be lodged in chamber or bore. Inspect bore and remove any obstructions. Replace ammunition.

8. HAMMER DOES NOT COCK WITH THE DECOCKING/SAFETY LEVER IN THE FIRE (UP) POSITION.

Step 1. Check decocking/safety lever (1). The operator may have inadvertently, while opening the slide, turned the decocking/safety lever to the safe (down) position causing automatic hammer lowering.



Rotate decocking/safety lever to the fire (up) position.

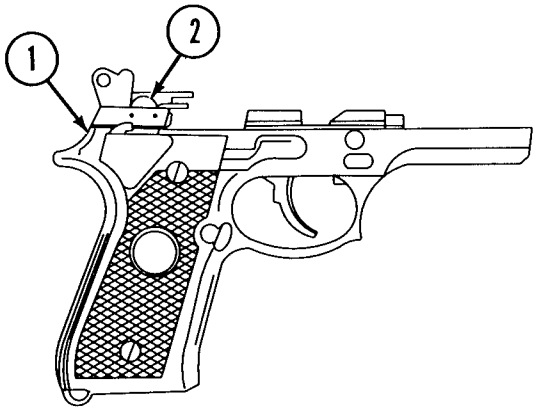
Step 2. No further test or inspection.

Evacuate pistol to intermediate direct support maintenance.

Table 2-3. Troubleshooting Procedures (cont).

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

9. HAMMER DOES NOT DECOCK WITH DECOCKING/SAFETY LEVER IN THE SAFE (DOWN) POSITION.



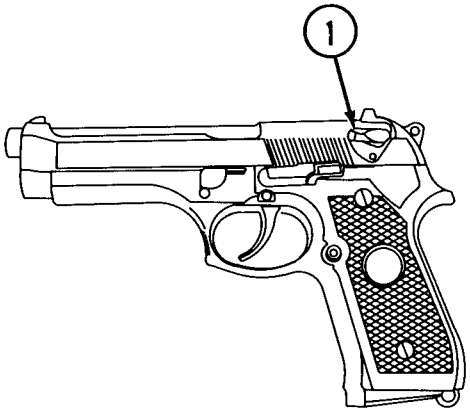
Step 1. Check for dirt or obstructions in receiver jamming hammer (1).

Remove dirt or obstructions. If the dirt or obstructions cannot be removed, evacuate pistol to intermediate direct support maintenance.

Step 2. Check for defective (worn or broken) hammer release lever (2).

Evacuate pistol to intermediate direct support maintenance.

10. PISTOL FAILS TO FIRE IN DOUBLE ACTION.

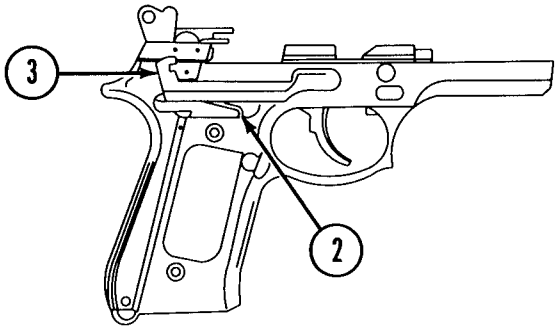


Step 1. Check decocking/safety lever (1). The operator may have inadvertently, while opening the slide, turned the decocking/safety lever to the safe (down) position causing automatic hammer lowering.

Rotate decocking/safety lever to the fire (up) position.

Step 2. Check for missing or defective trigger bar spring (2).

Evacuate pistol to intermediate direct support maintenance.



Step 3. Check for broken trigger bar (3).

If broken, evacuate pistol to intermediate direct support maintenance.

Section V. UNIT MAINTENANCE PROCEDURES

NOTE

When a pistol is received at unit maintenance, it must be inspected and if any deficiencies are found, they should be repaired or noted/tagged for repair at intermediate direct support maintenance/next authorized repair level.

2-10. GENERAL.

a. Unit maintenance is limited to replacement of the pistol grips, minor hardware and reversing the magazine catch assembly. (Coast Guard users are not authorized to reverse the magazine catch assembly.)

b. Initial Setup. In order to reduce the space required for the initial setup portion of the maintenance procedures, the following data is standard for all initial setups:

(1) Materials/parts - includes only items applicable to the procedure.

(2) Tools and special tools - includes only the standard tool set applicable to the procedure.

(3) Personnel required - includes the following designated joint service descriptions that are applicable to all unit maintenance procedures:

(a) Army: Military Occupational Specialty (MOS) 76Y Supply Clerk/Unit Armorer.

(b) Air Force: Air Force Specialty Code (AFSC) 753XX Combat Arms Training and Maintenance Specialists, Technicians and Gunsmiths.

(c) Navy: Gunner's Mate Guns (GMG).

(d) Marine Corps: Military Occupational Specialty (MOS) 2111 Unit Armorer (Infantry Weapon Repairer).

(e) Coast Guard: Refer to COMDTINST 8000.2.

(4) References - includes the operator's manual for joint service use:

(a) ARMY TM 9-1005-317-10.

(b) NAVY SW 370-AA-OPI-010 9mm.

(c) AIR FORCE TO 11W3-3-5-1.

(d) MARINE CORPS TM 1005A-10/1.

(e) COAST GUARD COMDTINST M8370.6.

(5) Equipment condition - is listed as applicable to the procedure.

(6) As General Safety Instructions, make sure the magazine is removed, the pistol is clear of ammunition, and the barrel has no obstructions.

2-11. MAINTENANCE OF 9mm PISTOL.

This task covers:

a. Disassembly
b. Cleaning
c. Inspection
d. Repair
e. Reassembly

INITIAL SETUP

Tools and Special Tools
None required

Materials/Parts
Cleaner, lubricant and preservative (CLP) (item 5, app D)
Solid film lubricant (item 12, app D)
Solvent, dry cleaning (item 22, app D)

WARNING

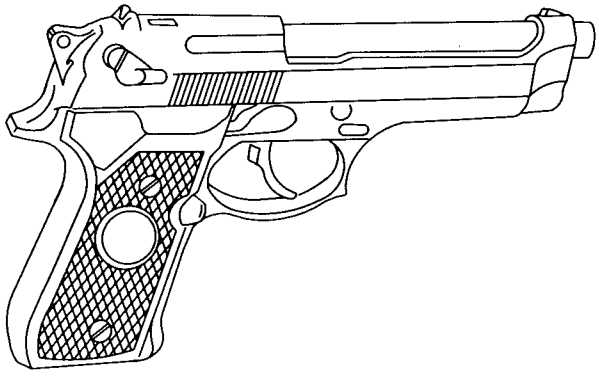
Make certain weapon is clear and there are no obstructions in the barrel or chamber. Do not keep live ammunition near work/maintenance area.

DISASSEMBLY

CAUTION

Dry fire the pistol only in conjunction with the function checks in PMCS and/or during training.

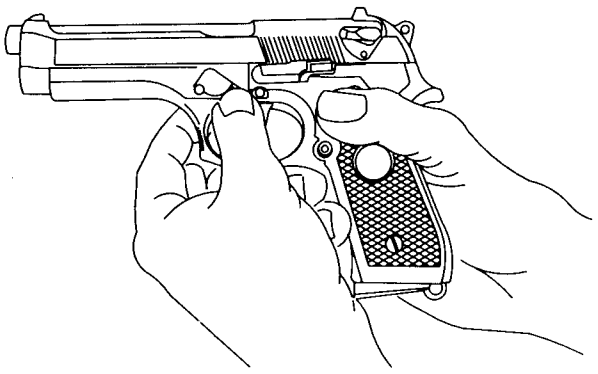
Do not allow the hammer to fall with full force by pulling the trigger when the slide is removed as damage to the receiver can occur. If necessary, the hammer should be manually lowered.



1. Clear/unload the pistol.

2. Allow slide to return fully forward.

3. Hold pistol in the right hand with muzzle slightly elevated. With forefinger, press disassembly lever release button, and with thumb, rotate disassembly lever downward until it stops.



2-11. MAINTENANCE OF 9mm PISTOL (cont).

DISASSEMBLY (cont)

4. Pull the slide and barrel assembly forward and remove.

WARNING

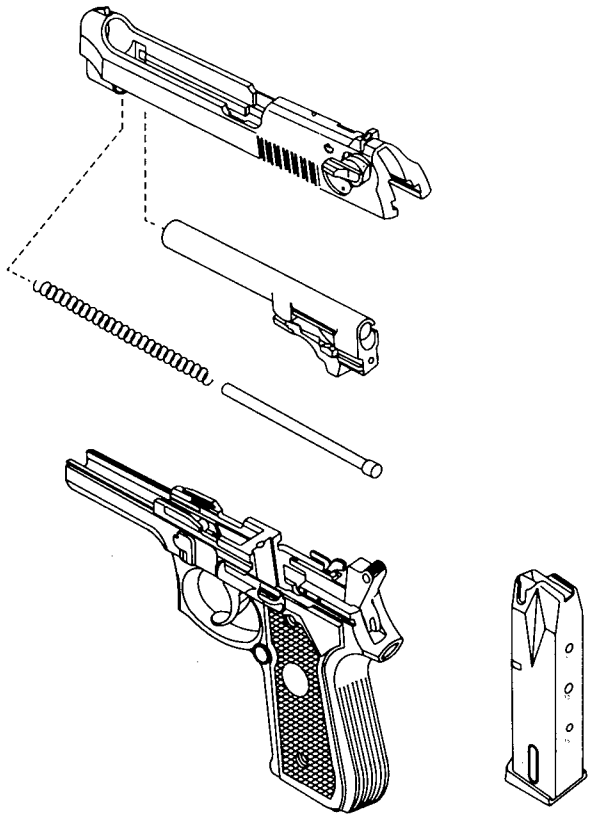
Use care when removing recoil spring and spring guide. Because of the amount of compression, assembly will be released under spring tension and could cause possible injury to personnel, or become damaged or lost.

5. Slightly compress recoil spring and spring guide, while at the same time lifting and removing recoil spring and spring guide. Allow the recoil spring to expand slowly.

6. Separate recoil spring from spring guide.

7. Push in on locking block plunger while pushing barrel forward slightly. Lift and remove locking block and barrel assembly from slide.

8. Refer to operator's manual for magazine disassembly instructions.



CLEANING

Remove dirt and corrosion or powder residue from parts with wiping rag (item 19, app D) dampened with CLP (item 5, app D)/RBC (item 7, app D).

INSPECTION AND REPAIR

1. Visually inspect all parts for damage.

2. Inspect external surfaces for proper finish (black surfaces should not reflect light). Touch up as required with solid film lubricant (item 12, app D).

CAUTION

If solid film lubricant comes in contact with any moving or internal part, clean part with dry cleaning solvent (item 22, app D).

3. Apply solid film lubricant (item 12, app D) to all external surfaces showing wear. Allow to dry a minimum of 12 hours before using weapon.

2-11. MAINTENANCE OF 9mm PISTOL (cont).

REASSEMBLY

1. Grasp the slide with the bottom facing up. With the other hand, grasp the barrel assembly with the locking block facing up.

2. Insert muzzle of the barrel assembly into the forward open end of the slide. At the same time, lower the rear of the barrel assembly by alining the extractor cutout with the extractor. The locking block will fall into the locked position in the slide.

3. Insert recoil spring onto recoil spring guide.

CAUTION

During spring insertion, spring tension must be maintained until spring guide is fully seated onto the cutaway on the locking block.

4. Insert end of recoil spring and recoil spring guide into slide recoil housing. At the same time, compress the recoil spring and lower the spring guide until fully seated onto the locking block cutaway.

CAUTION

If the hammer is cocked, carefully and manually lower the hammer.

Do not pull trigger while placing the slide onto the receiver.

5. Grasp the slide and barrel assembly, sights up, and aline the slide onto the receiver assembly guide rails.

6. Push until the rear of the slide is a short distance beyond the rear of the receiver assembly and hold. At the same time, rotate the disassembly latch lever upward. A click indicates a positive lock.

7. Refer to the operator's manual for magazine reassembly.

2-12. MAINTENANCE OF RECEIVER ASSEMBLY.

This task covers disassembly, inspection/repair, and reassembly.

INITIAL SETUP

Tools and Special Tools
Tool Set, Small Arms (SC 5180-95-CL-A07)

Materials/Parts
Brush, cleaning, small arms (item 3, app D)
Cleaner, lubricant and preservative (CLP) (item 5, app D)
Lubricating oil, weapons semi-fluid (LSA) (item 15, app D)
Rag, wiping (item 19, app D)

WARNING

Make certain weapon is clear and there are no obstructions in the barrel or chamber.

Equipment Condition
Pistol, field stripped

NOTE

Unit maintenance is limited to functions in the Maintenance Allocation Chart in appendix B.

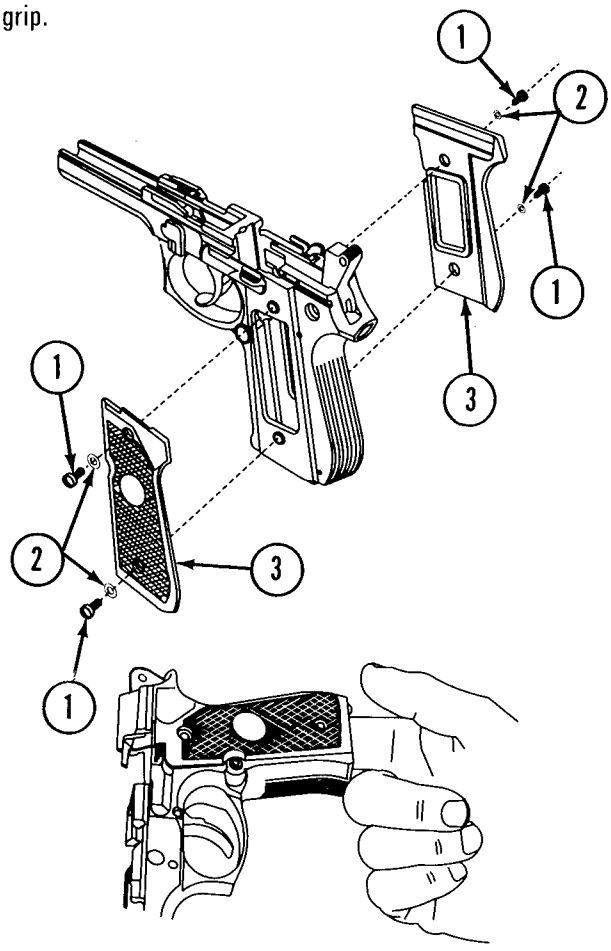
2-12. MAINTENANCE OF RECEIVER ASSEMBLY (cont).

DISASSEMBLY

NOTE

When removing each pistol grip, the lockwashers may remain seated or come loose. Be careful not to lose them.

To remove the pistol grips, remove grip screws (1) and lockwashers (2). Insert the forefinger into the magazine well and gently lift up on the pistol grip (3). Repeat the procedure to remove the other pistol grip.



CLEANING

Wipe receiver assembly clean with cloth (item 19, app D). Use a soft brush (item 3, app D) for hard to clean areas. Apply a light coat of CLP (item 5, app D)/LSA (item 15, app D) to all surfaces.

INSPECTION/REPAIR

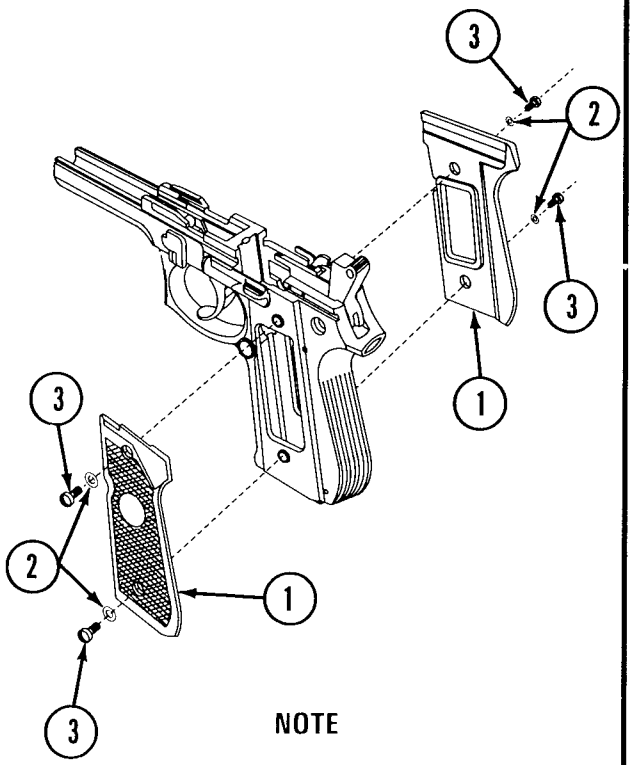
Grips that have cracks, deep gouges, or any defects that will affect serviceability will be replaced. Replace grips on which checkering is worn smooth. Small cracks or chips not affecting strength or retention of grip are acceptable. Replace screws that are stripped or damaged.

REASSEMBLY

CAUTION

Damage will occur from overtightening the grip screws. Tighten grip screws only until snug.

Install the left and right pistol grips (1), lockwashers (2), and screws (3). Tighten only until snug.



NOTE

When the necessary maintenance task has been completed, reassemble the pistol in accordance with paragraph 2-11.

2-13. MAINTENANCE OF MAGAZINE CATCH ASSEMBLY.

This task covers removal, reversing and installation.

INITIAL SETUP

Tools and Special Tools
Tool Set, Small Arms (SC 5180-95-CL-A07)

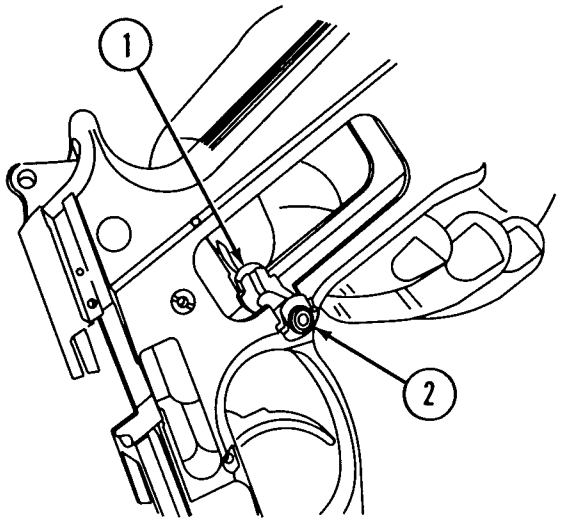
Equipment Condition
Pistol grips removed

WARNING

Make sure weapon is clear and there are no obstructions in the barrel or chamber.

REMOVAL

Remove the magazine catch assembly (1) by pushing in and to the rear with the fingertip, on the side opposite the magazine catch assembly button (2). The magazine catch assembly will then drop out.

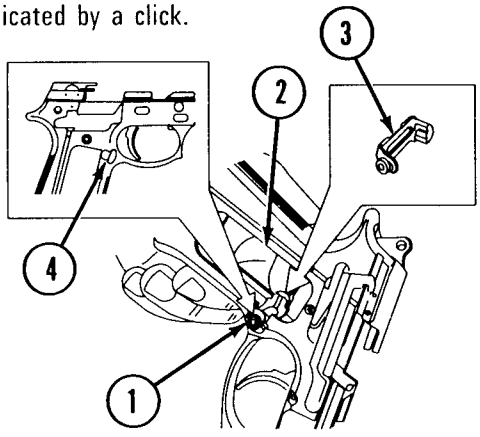


REVERSING AND INSTALLATION

NOTE

To reverse the magazine catch assembly, install the button on the opposite side.

To install the magazine catch assembly (1), insert the magazine catch assembly through the magazine well window (2) at an angle. The long bushing (3) of the magazine catch assembly (1) must catch on the edge of the magazine catch assembly cutout (4). At the same time, push in on the flat side of the magazine catch assembly (1) and push down to seat. This will be indicated by a click.



NOTE

When the necessary maintenance task has been completed, reassemble the pistol in accordance with paragraph 2-12.

2-14. SAFETY/FUNCTION CHECK.

WARNING

Before performing the following safety/function check, clear the pistol and magazine in accordance with the unloading procedures in the operator's manual.

1. Depress the slide stop. Insert an empty magazine into the pistol, and ensure that the magazine catch assembly locks the magazine in place.

2. Retract the slide and release it. The magazine follower should push up on the slide stop, locking the slide to the rear.

3. Rotate the decocking/safety lever to the fire (up) position. With a 1/16 inch punch, push up on the bottom side of the firing pin block. At the same time, push in on the firing pin striker with a 1/8 inch punch. Ensure the firing pin protrudes through the breech face of the slide.

4. Depress the magazine release button allowing the magazine to fall free.

5. Rotate the decocking/safety lever to the safe (down) position. Depress the slide stop allowing the slide to return fully forward. At the same time, the hammer should fall to the full forward position.

6. Squeeze and release trigger. Firing pin block should move up and down. Hammer should not move. The trigger should return to the full forward position under spring tension.

7. Place decocking/safety lever in fire (up) position.

8. Squeeze trigger to check double action. Hammer should cock and fall.

9. Squeeze trigger again and hold to rear. Manually retract and release slide while holding trigger to rear. Release trigger, click should be heard, hammer should not fall.

10. Squeeze trigger to check single action. Hammer should fall.

11. If the above safety/function checks perform as indicated, pistol is mission ready. If checks do not perform as indicated, evacuate pistol to intermediate direct support maintenance/next authorized repair level.

Section VI. PREPARATION FOR STORAGE OR SHIPMENT

2-15. PREPARATION FOR STORAGE OR SHIPMENT.

M9 (9mm) pistol cleaning, preservation, packaging, packing and marking.

a. Packing. Disassemble, clean, dry, preserve and package the pistol as follows:

(1) Disassemble the pistol as necessary to accomplish cleaning.

(2) All metallic surfaces shall be cleaned with CLP (item 5, app D)/RBC (item 7, app D).

(3) Rinse the pistol with dry cleaning solvent (item 22, app D) and dry with compressed air or clean wiping rags (item 19, app D).

(4) Metallic surfaces shall be preserved with general purpose P-9 lubricating oil (item 13, app D) (Army only). All other services use CLP (item 5, app D). Drain excess oil from the pistol.

(5) Seal the pistol in a bag made of VCI treated cold seal barrier material (item 17, app D).

(6) Place the bagged pistol into a fiberboard container (item 9, app D).

(7) Use cushioning material (item 16, app D) to ensure a tight pack.

(8) Close the fiberboard container and seal all seams and joints with water-resistant paperback pressure sensitive tape (item 27, app D).

(9) Apply the following marking on each fiberboard container:

1005-01-118-2640
Pistol, Semiautomatic, 9mm, M9
1 EACH
PRESERVED ON (MONTH, YEAR)
GROSS WEIGHT: CUBE

(10) Place a quantity of fiberboard containers into a cleated plywood box (item 1, app D). A plywood box made in accordance with PPP-B-601 or PPP-B-621 may be used.

(11) Strap the plywood box with 5/8" wide flat steel strapping (item 23, app D).

(12) Serial numbers are required and shall be listed on the packing list.

NOTE

The following marking shall be omitted from the outside of exterior shipping container:

1005-01-118-2640

Pistol, Semiautomatic, 9mm, M9

b. Marking. Apply the following markings to the exterior of the shipping container, using stencil or label:

ADDRESS OF DESTINATION

WEIGHT AND CUBE

CHAPTER 3
INTERMEDIATE DIRECT SUPPORT MAINTENANCE INSTRUCTIONS

Chapter Overview

This chapter contains information and instructions for the repairman to help keep the M9 pistol in good repair. The chapter consists of repair parts, special tools, and support equipment; service upon receipt; troubleshooting; and maintenance procedures. Protective clothing and gloves should be worn when repairing, firing or cleaning the M9 pistol.

Section I. REPAIR PARTS, SPECIAL TOOLS, AND SUPPORT EQUIPMENT

3-1. COMMON TOOLS AND EQUIPMENT. For authorized common tools and equipment refer to the Modified Table of Organization and Equipment (MTOE) applicable to your unit. Navy, Air Force and Coast Guard users are authorized to use the following common tools:

Task	Paragraph	Tool
Maintenance of 9mm Pistol	3-8	None required
Maintenance of Barrel Assembly	3-9	Hammer, 8 ounce Punch, 1/16 inch Stone, honing (assorted)
Maintenance of Slide Assembly	3-10	Hammer, 8 ounce Pliers Punch, 1/16 inch Punch, 3/32 inch Punch, brass, 3/8 inch Stone, honing (assorted) Vice, soft-jawed
Maintenance of Receiver Assembly	3-11	Hammer, 8 ounce Pliers, needle-nosed Punch, 1/16 inch Punch, 3/32 inch Punch, 1/8 inch Screwdriver Stone, honing (assorted)
Removal and Replacement of Grip Screw Bushings	3-11	Bit, drill, 1/8 inch Drill, electric Extractor, easy-out, no. 1 Hammer, 8 ounce Screwdriver (modified) Wrench, open end, adjustable, 8 inch Wrench, torque, 3/8 inch
Final Inspection	3-12	Fixture, test, trigger pull

3-2. SPECIAL TOOLS AND SUPPORT EQUIPMENT. There are no special tools for this item. Tools and test equipment are listed in appendix B, section III, of this manual. There is no TMDE for this item.

3-3. REPAIR PARTS. Repair parts are listed and illustrated in appendix C of this manual.

Section II. SERVICE UPON RECEIPT

3-4. GENERAL. Normally intermediate direct support maintenance does not perform service upon receipt except to assist unit maintenance as required. Refer to chapter 2, paragraph 2-5, for service upon receipt.

Section III. TROUBLESHOOTING

3-5. INTERMEDIATE DIRECT SUPPORT TROUBLESHOOTING.

a. This section contains troubleshooting information for locating and correcting most of the operating troubles which may develop in the pistols. Each malfunction for an individual component, unit, or system is followed by a list of tests or inspections which will help you to determine the corrective actions to take. You should perform the tests/inspections and corrective actions in the sequence shown on pages 3-2 through 3-8. The symptom index is for page referencing only.

b. This manual cannot list all malfunctions that may occur, nor all tests or inspections and corrective actions. If a malfunction is not listed or is not corrected by listed corrective actions, see individual repair sections for maintenance instructions on each major assembly for remedial action.

3-6. TROUBLESHOOTING PROCEDURES. Refer to table 3-1 for malfunctions, tests, and corrective actions. This section should be used in conjunction with unit troubleshooting procedures (see para 2-9).

WARNING

Before starting an inspection, and/or performing any maintenance procedures, be sure to clear the pistol. Do not squeeze the trigger until the pistol has been cleared. Inspect the chamber to be sure that it is empty. Check to see that there are no obstructions in the barrel. Do not keep live ammunition near work/maintenance area.

SYMPTOM INDEX

CAUTION

If a honing stone is used to remove burrs or sharp edges, care must be taken to maintain the original shape or design.

Table 3-1. Troubleshooting Procedures.

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

1. FAILURE TO FEED.

Step 1. Check for damaged feed ramp (1).

If sharp or burred edges are detected on feed ramp (1), polish carefully with crocus cloth (item 8, app D)/honing stone without deforming feed ramp. If pistol fails to feed after removing sharp or burred edges from feed ramp, replace barrel in accordance with maintenance procedures in paragraph 3-9.

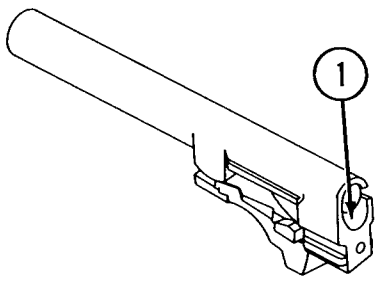


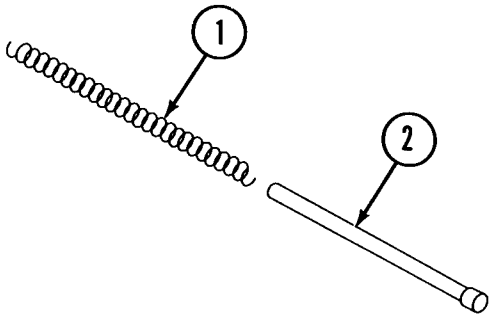
Table 3-1. Troubleshooting Procedures (cont).

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

2. AMMUNITION DOES NOT CHAMBER.

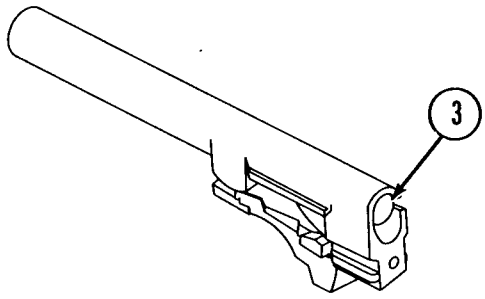
Step 1. Check to see if the recoil spring (1) and spring guide (2) are damaged or broken.

If bent or broken, replace in accordance with maintenance procedures in paragraph 3-10. If the recoil spring or spring guide have burrs, attempt to polish with crocus cloth (item 8, app D). If burrs cannot be removed, replace.



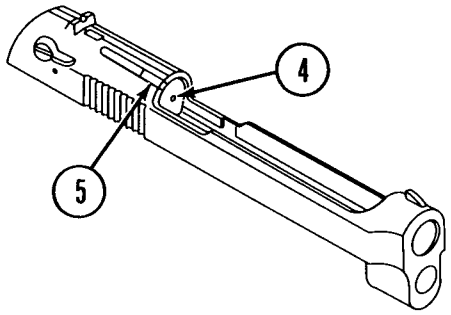
Step 2. Check for sharp or burred chamber entrance (3).

If sharp or burred edges are detected, replace barrel in accordance with maintenance procedures in paragraph 3-9.



Step 3. Check for dirt or burrs on breech face (4). Dirt or burrs can prevent cartridge base head/rim from sliding upward for extractor hook (5) engagement.

Carefully remove burrs from breech face and polish using crocus cloth (item 8, app D). Clean with CLP (item 5, app D)/RBC (item 7, app D) and lubricate with CLP (item 5, app D)/LSA (itme 15, app D). If burrs cannot be removed, replace slide in accordance with maintenance procedures in paragraph 3-10.



3. SLIDE DOES NOT LOCK FULLY FORWARD.

Step 1. Check for burrs and/or broken locking block (1) and lugs (2).

If cracks or burrs are detected, replace locking block in accordance with maintenance procedures in paragraph 3-9.

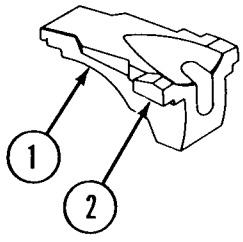


Table 3-1. Troubleshooting Procedures (cont).

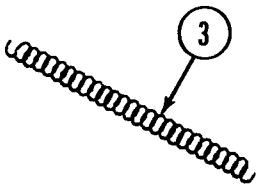
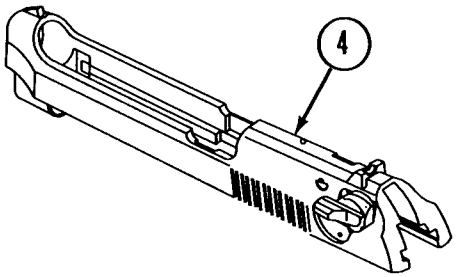
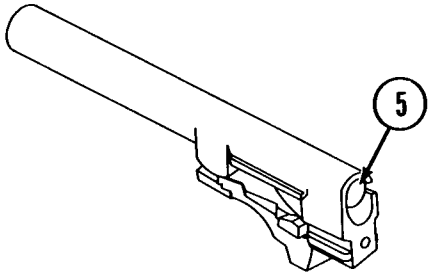
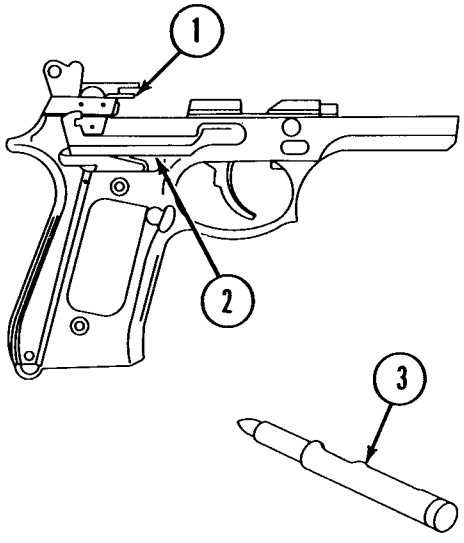
MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION	
Step 2. Check for damaged or broken recoil spring (3). If broken, replace recoil spring in accordance with maintenance procedures in paragraph 3-8.	
Step 3. Check for damaged or burred slide (4). Inspect slide for burrs. If burrs are detected, carefully remove with a fine honing stone or polish with crocus cloth (item 8, app D). If burrs cannot be removed, replace slide in accordance with maintenance procedures in paragraph 3-10.	
Step 4. Check for dirty or damaged chamber (5). If chamber is dirty, clean using CLP (item 5, app D)/ RBC (item 7, app D) and lubricate with CLP (item 5, app D)/LSA (item 15, app D). If the chamber is damaged, replace barrel in accordance with maintenance procedures in paragraph 3-9.	
4. FAILURE TO FIRE. Step 1. Check for broken firing pin block lever (1). If broken, replace in accordance with maintenance procedures provided in paragraph 3-11. Step 2. Check for broken trigger bar (2). If broken, replace in accordance with maintenance procedures provided in paragraph 3-11. Step 3. Check for broken or damaged firing pin (3). If broken or damaged, replace firing pin in accordance with paragraph 3-10.	

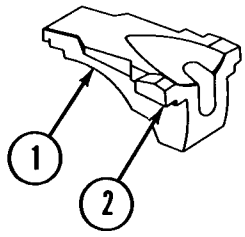
Table 3-1. Troubleshooting Procedures (cont).

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

5. SLIDE DOES NOT UNLOCK.

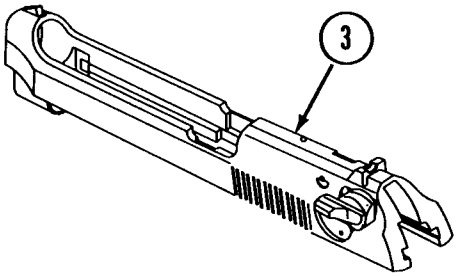
Step 1. Check for broken or damaged locking block (1) and lugs (2).

If cracks or burrs are detected, replace locking block in accordance with maintenance procedures in paragraph 3-9.



Step 2. Check for broken, cracked or damaged slide (3).

If damaged (burrs), attempt to polish using crocus cloth (item 8, app D) or a fine honing stone. If broken, cracked or damaged beyond repair, replace slide in accordance with maintenance procedures in paragraph 3-10.



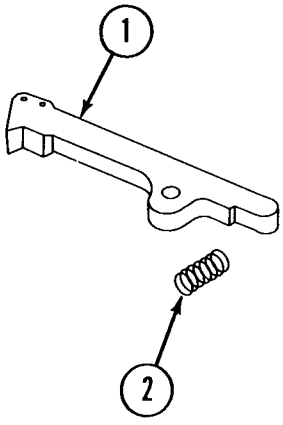
6. CARTRIDGE DOES NOT EXTRACT.

Step 1. Check for powder residue and/or dirt jamming extractor (1).

Clean with CLP (item 5, app D)/RBC (item 7, app D) and lubricate with CLP (item 5, app D)/LSA (item 15, app D).

Step 2. Check for defective extractor spring (2).

Remove extractor and inspect spring. If bent or broken, replace extractor spring in accordance with maintenance procedures in paragraph 3-10.



Step 3. Check for broken, damaged or worn extractor (1).

If broken, damaged, or worn, replace extractor in accordance with maintenance procedures in paragraph 3-10.

Table 3-1. Troubleshooting Procedures (cont).

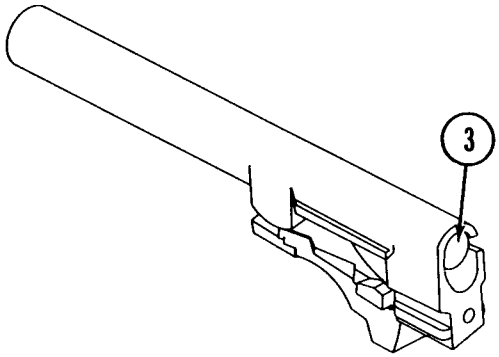
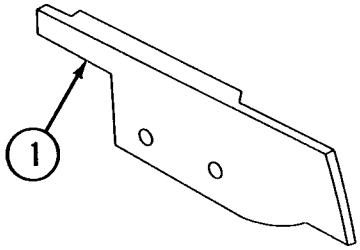
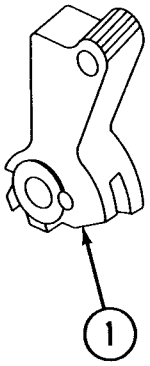
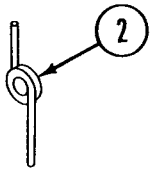
MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION	
Step 4. Check for dirty, rusty, or pitted chamber (3). If the chamber is dirty, clean with CLP (item 5, app D)/RBC (item 7, app D) and lubricate with CLP (item 5, app D)/LSA (item 15, app D). If the chamber is found to be rusty and/or pitted, replace barrel in accordance with maintenance procedures in paragraph 3-9.	
7. FAILURE TO EJECT. Check for broken or damaged ejector (1). If broken or damaged, replace ejector in accordance with maintenance procedures in paragraph 3-11.	
8. HAMMER DOES NOT COCK WITH THE DECOCKING/SAFETY LEVER IN THE FIRE (UP) POSITION. Step 1. Check for dirt preventing sear from engaging hammer notch (1). Disassemble receiver in accordance with maintenance procedures provided in paragraph 3-11. Clean with CLP (item 5, app D)/RBC (item 7, app D) and lubricate with CLP (item 5, app D)/LSA (item 15, app D).	
Step 2. Check for defective sear spring (2). A defective sear spring can visually be inspected by removing the left pistol grip. If broken, replace in accordance with maintenance procedures provided in paragraph 3-11.	
Step 3. Inspect for correct installation of sear spring (2). If incorrectly installed, reinstall in accordance with maintenance procedures provided in paragraph 3-11.	

Table 3-1. Troubleshooting Procedures (cont).

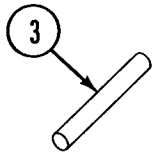
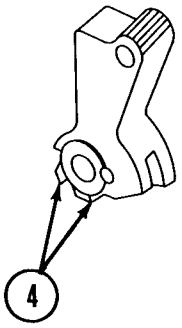
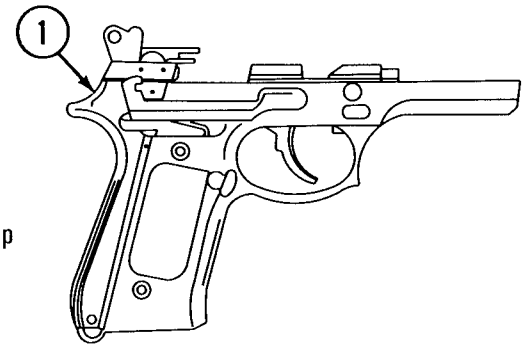
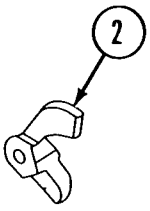
MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION	
Step 4. Check for broken sear pin (3). A defective sear pin can only be inspected by removing the sear. If broken, replace in accordance with maintenance procedures provided in paragraph 3-11.	
Step 5. Check hammer for broken or worn sear and/or hammer notches (4). If broken or worn, replace in accordance with maintenance procedures provided in paragraph 3-11.	
9. HAMMER DOES NOT DECOCK WITH DECOCKING/SAFETY LEVER IN THE SAFE (DOWN) POSITION. Step 1. Check for dirt in receiver jamming hammer (1). Disassemble receiver in accordance with maintenance procedures provided in paragraph 3-11. Clean with CLP (item 5, app D)/RBC (item 7, app D) and lubricate with CLP (item 5, app D)/LSA (item 15, app D).	
Step 2. Check for defective (worn or broken) hammer release lever (2). Inspect lower hammer release lever finger. Ensure that the hammer release lever finger engages the back side of the sear. This can be done by looking into the magazine well from the top. If the hammer release lever fails to engage the sear, replace in accordance with maintenance procedures provided in paragraph 3-11.	

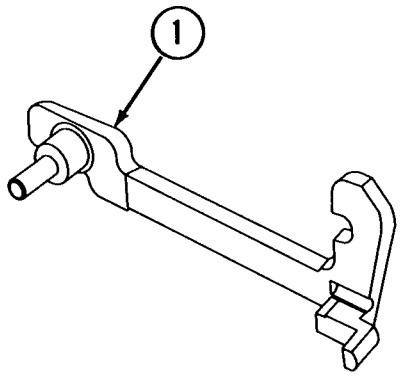
Table 3-1. Troubleshooting Procedures (cont).

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

10. PISTOL FAILS TO FIRE IN DOUBLE ACTION.

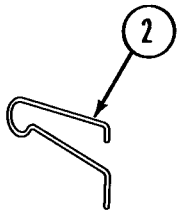
Step 1. Check for worn or broken trigger bar (1).

If a worn or broken trigger bar is suspected, field strip pistol (see para 3-8 or operator's manual). Look down into the trigger cavity from the top of the receiver. Pull the trigger to see if trigger bar post is broken. The trigger bar should move forward and return to the rear under spring tension. Remove the right pistol grip. While pulling the trigger, observe the trigger bar lug (at rear), as it engages the sear, cocks and releases the hammer. If the trigger bar fails to cock and release the hammer, the trigger bar lug is probably worn. If necessary, replace in accordance with maintenance procedures provided in paragraph 3-11.



Step 2. Check for missing or defective trigger bar spring (2).

If necessary, replace trigger bar spring in accordance with maintenance procedures provided in paragraph 3-11.



Section IV. INTERMEDIATE DIRECT SUPPORT MAINTENANCE PROCEDURES

3-7. GENERAL. Initial Setup. In order to reduce the space required for the initial setup portion of the maintenance procedures, the following data is standard for all initial setups:

a. Materials/parts - includes only items applicable to the procedure.

b. Tools and special tools - includes only the standard tool set applicable to the procedure.

c. Personnel required - includes the following designated joint service descriptions that are applicable to all intermediate direct support maintenance procedures

(1) Army: MOS 45B Small Arms Repairer.

(2) Air Force: AFSC 753XX Combat Arms Training and Maintenance Specialists, Technicians and Gunsmiths.

(3) Navy: Gunner's Mate Guns (GMG).

(4) Marine Corps: MOS 2111 Unit Armorer (Infantry Weapon Repairer).

(5) Coast Guard: Refer to COMDTINST 8000.2.

3-7. GENERAL (cont).

d. References - includes the operator's manual for joint service use:

(1) ARMY TM 9-1005-317-10.

(2) NAVY SW 370-AA-OPI-010/9mm.

(3) AIR FORCE TO 11W3-3-5-1.

(4) MARINE CORPS TM 1005A-10/1.

(5) COAST GUARD COMDTINST M8370.6.

e. Equipment condition - is listed as applicable to the procedure.

f. Recommend removed spring pins be replaced with new spring pins.

g. As General Safety Instructions, make sure the magazine is removed, the pistol is clear of ammunition and the barrel has no obstructions.

3-8. MAINTENANCE OF 9mm PISTOL.

This task covers:

a. Disassembly
b. Cleaning
c. Inspection
d. Repair
e. Reassembly

INITIAL SETUP

Tools and Special Tools
None required.

WARNING

Make certain weapon is clear and there are no obstructions in the barrel or chamber. Do not keep live ammunition near work/maintenance area.

Materials/Parts
Cleaner, lubricant and preservative (CLP) (item 5, app D)
Cleaning compound, solvent: rifle bore cleaner (RBC) (item 7, app D)
Solid film lubricant (item 12, app D)
Solvent, dry cleaning (item 22, app D)
Wiping rag (item 19, app D)

DISASSEMBLY

CAUTION

Dry fire the pistol only in conjunction with the function checks in PMCS and/or during training.

Do not allow the hammer to fall with full force by pulling the trigger when the slide is removed as damage to the receiver can occur. If necessary, the hammer should be manually lowered.

3-8. MAINTENANCE OF 9mm PISTOL (cont).

DISASSEMBLY (cont)

1. Clear/unload the pistol.

2. Allow slide to return fully forward.

3. Hold pistol in the right hand with muzzle slightly elevated. With forefinger, press disassembly lever release button, and with thumb, rotate disassembly lever downward until it stops.

4. Pull the slide and barrel assembly forward and remove.

WARNING

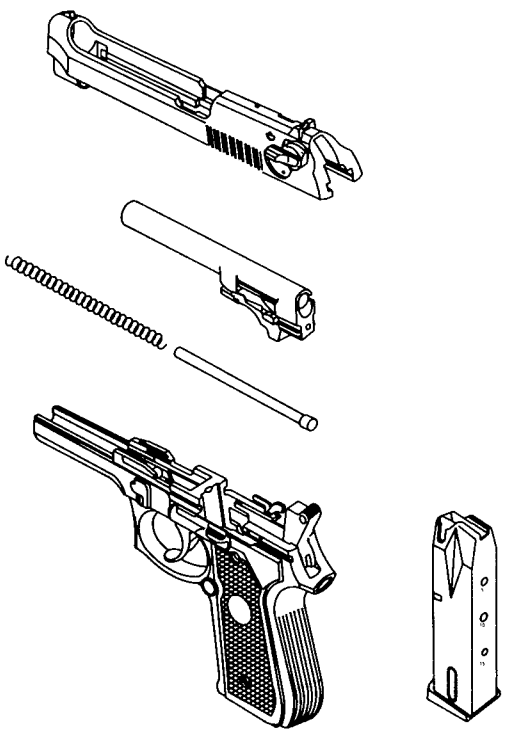
Use care when removing recoil spring and spring guide. Because of the amount of compression, assembly will be released under spring tension and could cause possible injury to personnel, or become damaged or lost.

5. Slightly compress recoil spring and spring guide, while at the same time lifting and removing recoil spring and spring guide. Allow the recoil spring to expand slowly.

6. Separate recoil spring from spring guide.

7. Push in on locking block plunger while pushing barrel forward slightly. Lift and remove locking block and barrel assembly from slide.

8. Refer to operator's manual for magazine disassembly instructions.



CLEANING

Remove dirt and corrosion or powder residue from parts with wiping rag (item 19, app D) dampened with CLP (item 5, app D)/RBC (item 7, app D).

INSPECTION AND REPAIR

1. Visually inspect all parts for damage.

2. Inspect external surfaces for proper finish (black surfaces should not reflect light). Touch up as required with solid film lubricant (item 12, app D).

CAUTION

If solid film lubricant comes in contact with any moving or internal part, clean part with dry cleaning solvent (item 22, app D).

3. Apply solid film lubricant (item 12, app D) to all external surfaces showing wear. Allow to dry a minimum of 12 hours before using weapon.

3-8. MAINTENANCE OF 9mm PISTOL (cont).

REASSEMBLY

1. Grasp the slide with the bottom facing up. With the other hand, grasp the barrel assembly with the locking block facing up.

2. Insert muzzle of the barrel assembly into the forward open end of the slide. At the same time, lower the rear of the barrel assembly by alining the extractor cutout with the extractor. The locking block will fall into the locked position in the slide.

3. Insert recoil spring onto recoil spring guide.

CAUTION

During spring insertion, spring tension must be maintained until spring guide is fully seated onto the cutaway on the locking block.

4. Insert end of recoil spring and recoil spring guide into slide recoil housing. At the same time, compress the recoil spring and lower the spring guide until fully seated onto the locking block cutaway.

CAUTION

Be sure hammer is uncocked and firing pin block lever is in the down position. If the hammer is cocked, carefully and manually lower the hammer.

Do not pull trigger while placing the slide onto the receiver.

5. Grasp the slide and barrel assembly, sights up, and aline the slide onto the receiver assembly guide rails.

6. Push until the rear of the slide is a short distance beyond the rear of the receiver assembly and hold. At the same time, rotate the disassembly latch lever upward. A click indicates a positive lock.

7. Refer to the operator's manual for magazine reassembly.

3-9. MAINTENANCE OF BARREL ASSEMBLY.

This task covers:

a. Disassembly
b. Cleaning
c. Inspection/Repair
d. Reassembly

INITIAL SETUP

Tools and Special Tools
Shop Set, Small Arms: Field Maintenance Basic, Less Power (SC 4933-95-CL-A11)

Materials/Parts
Brush, cleaning, small (item 4, app D)
Cleaner, lubricant and preservative (CLP) (item 5, app D)
Cleaning compound, solvent, rifle bore cleaner (RBC) (item 7, app D)
Cloth, abrasive, crocus (item 8, app D)
Inspection penetrant (item 11, app D)
Lubricating oil, weapons semi-fluid (LSA) (item 15, app D)
Wiping rag (item 19, app D)
Locking block plunger spring pin (9346423)

WARNING

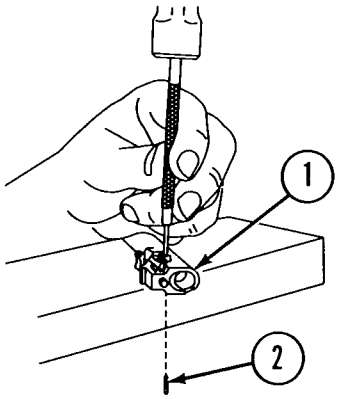
Make certain weapon is clear and there are no obstructions in the barrel or chamber.

Equipment Condition
Pistol, field stripped

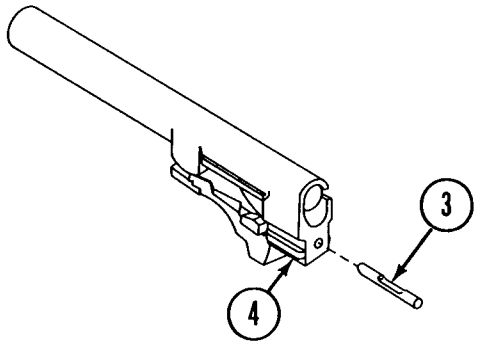
3-9. MAINTENANCE OF BARREL ASSEMBLY (cont).

DISASSEMBLY

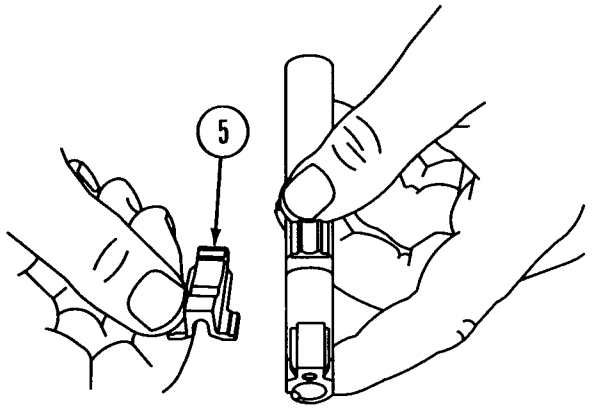
1. Place barrel assembly (1) on a soft surface. With a 1/16 inch punch, lightly tap out locking block plunger spring pin (2).



2. Remove locking block plunger (3) from rear of barrel (4).



3. Remove the locking block (5) by sliding the locking block out of either side of retaining notch.



CLEANING

Remove dirt and corrosion from powder-fouled parts with wiping rag (item 19, app D) dampened with CLP (item 5, app D). If necessary, use RBC (item 7, app D) with bore brush (item 4, app D) to clean bore and chamber. Lightly oil with CLP (item 5, app D)/LSA (item 15, app D).

INSPECTION/REPAIR

1. Inspect entire exterior surface of barrel for cracks, specifically in front of barrel lugs. If cracks visible to the naked eye are found, replace barrel.

2. Inspect internal surfaces of bore and chamber for cracks, chipping, and excessive pitting. If pitting in the bore area exceeds one land in width and 3/8 inch in length, replace barrel.

CAUTION

If a honing stone is used to remove burrs or sharp edges, care must be taken to maintain original shape or design.

3. Feed ramp should be free of burrs and sharp edges. If burred, polish with crocus cloth (item 8, app D) and/or honing stone.

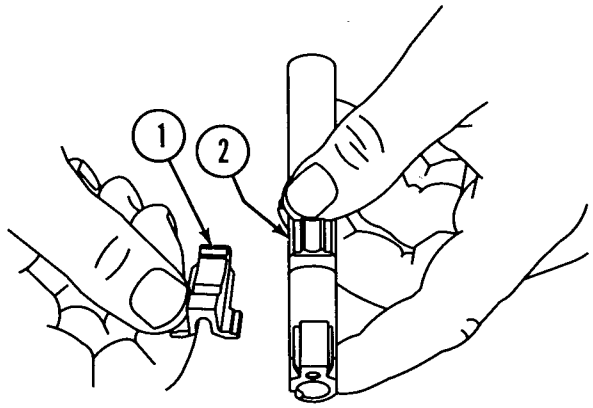
4. Inspect locking block and locking block lugs for cracks using inspection penetrant (item 11, app D). If cracks are found, replace locking block.

5. Locking block plunger should be free of burrs, cracks, and chips. If damage cannot be corrected, replace locking block plunger.

3-9. MAINTENANCE OF BARREL ASSEMBLY (cont).

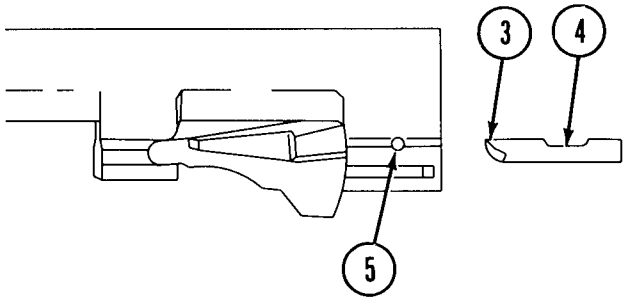
REASSEMBLY

1. Slide the locking block (1) into the retaining notch (2) from either the left or right side and center.

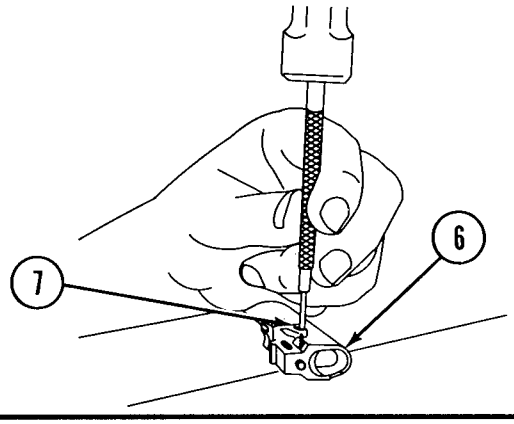


2. Insert the locking block plunger curved/pointed end (3) into the rear of the barrel. The cutaway section (4) of the plunger should face toward the chamber.

3. Using a 1/16 inch punch, aline the plunger cutaway (4) with the spring pin hole (5).



4. With the barrel (6) resting on a soft surface, lightly tap the 5/16 inch long locking block plunger spring pin (7) in until slightly below flush.



NOTE

When the necessary maintenance task has been completed, reassemble the pistol in accordance with paragraph 3-8.

3-10. MAINTENANCE OF SLIDE ASSEMBLY.

This task covers:

a. Disassembly
b. Cleaning
c. Inspection/Repair
d. Reassembly

INITIAL SETUP

Tools and Special Tools

Shop Set, Small Arms: Field Maintenance, Basic, Less Power (SC 4933-95-CL-A11)

Materials/Parts

Cleaner, lubricant and preservative (CLP) (item 5, app D)
Cleaning compound, solvent, rifle bore cleaner (RBC) (item 7, app D)
Cloth, abrasive, crocus (item 8, app D)
Lubricant, solid film (item 12, app D)
Lubricating oil, weapons semi-fluid (LSA) (item 15, app D)
Wiping rag (item 19, app D)
Firing pin block spring pin (9346427)
Safety lever spring pin (2) (9346430)

WARNING

Make certain weapon is clear and there are no obstructions in the barrel or chamber.

Equipment Condition

Pistol, field stripped

NOTE

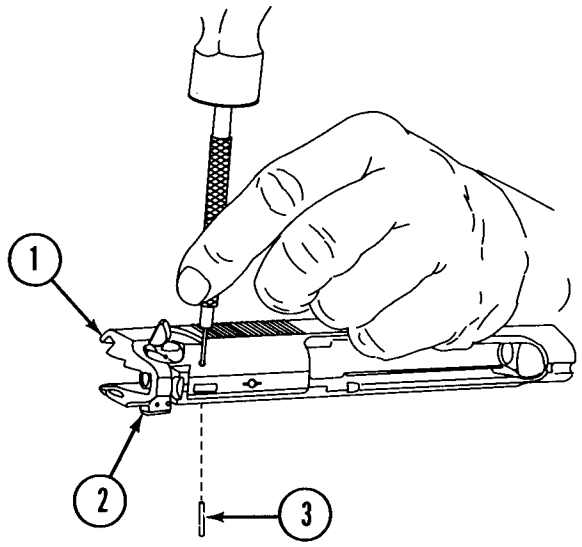
The rear sight may be removed without disassembly of the slide. The decocking/safety lever must be in the safe (down) position. See steps 12 & 13.

DISASSEMBLY

1. Place slide assembly (1) on left or right side with decocking/safety lever (2) over edge of soft support. With a 1/16 inch punch, lightly tap out firing pin block spring pin (3).

CAUTION

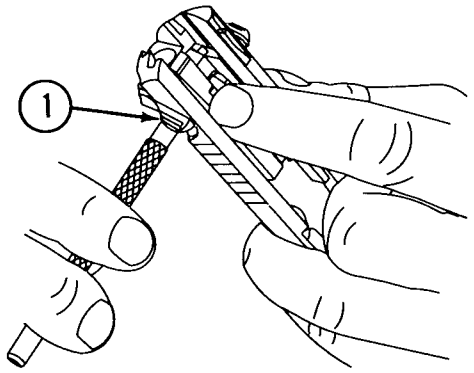
Firing pin block is under spring tension. When removing the punch, maintain slight pressure on the bottom side of the firing pin block. Be careful not to lose the firing pin block spring during removal.



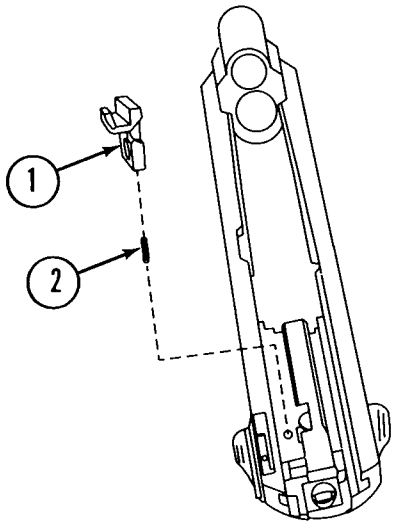
3-10. MAINTENANCE OF SLIDE ASSEMBLY (cont).

DISASSEMBLY (cont)

2. With the forefinger, push in slightly on the bottom side of the firing pin block. Remove the 1/16 inch punch from the firing pin block pin hole (1).



3. Slowly release the pressure on the firing pin block (1). Remove the firing pin block (1) and firing pin block spring (2) from cavity.

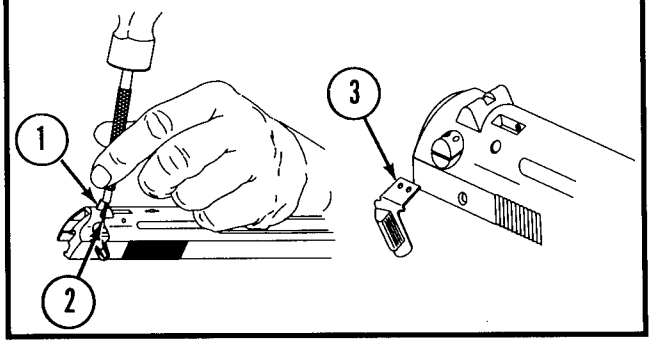


NOTE

In order to remove the spring pins for removal of the right safety lever wing, the decocking/safety lever must be in the safe (down) position.

4. Place the slide on a soft support with the sights (1) up. With a 1/16 inch punch, lightly tap out both right safety lever spring pins (2).

5. Remove the right safety lever wing (3).

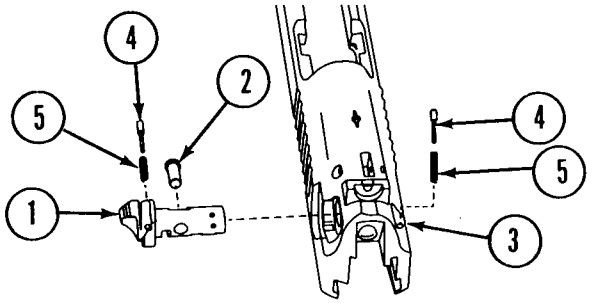


CAUTION

The trigger bar detent and the left safety detent are under spring tension. The palms of both hands should be used when removing the decocking/safety lever from the slide to prevent loss of detents and springs.

6. Rotate decocking/safety lever (1) to fire (up) position. With a punch, push in on the rear of the firing pin striker (2) and rotate decocking/safety lever up past fire position until click is heard and hold. Carefully push in on the right side of the decocking/safety lever (3) while maintaining control of detents and springs.

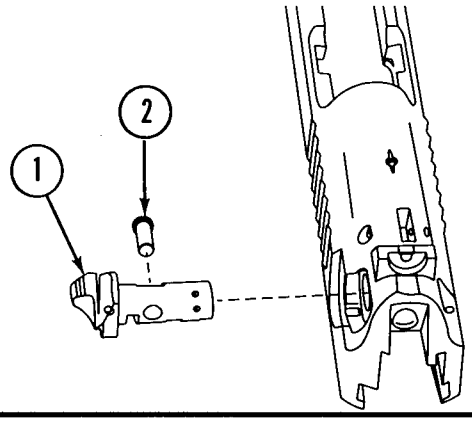
7. Remove both detents (4) and springs (5).



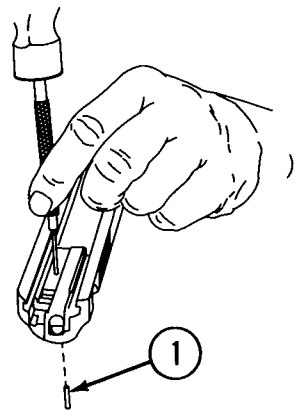
3-10. MAINTENANCE OF SLIDE ASSEMBLY (cont).

DISASSEMBLY (cont)

8. Remove the decocking/safety lever (1) and firing pin striker (2) from the slide. Remove the firing pin striker (2) from the decocking/safety lever (1).



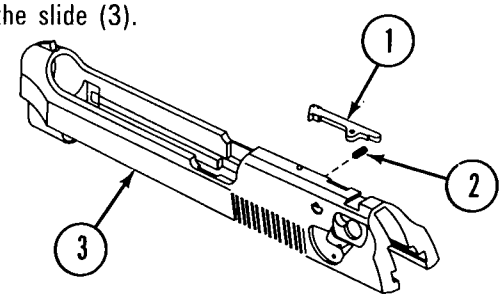
9. Place the slide on a soft support with the sights down. Place the slide in a position so the headed extractor pin can be tapped out. With a 3/32 inch punch, lightly tap out the headed extractor pin (1) downward at a slight angle. With a pair of pliers, carefully pull the headed extractor pin from the slide while maintaining slight pressure on the rear of the extractor.



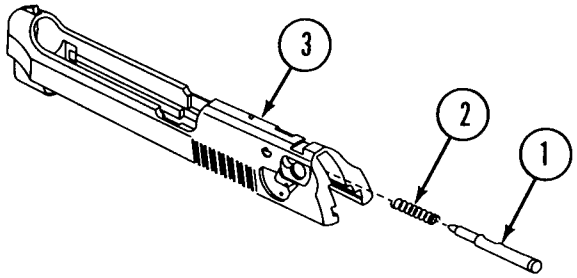
CAUTION

When releasing pressure from the rear of the extractor, ensure the rear of the slide is covered to prevent ejection of the firing pin and the firing pin spring.

10. Remove the extractor (1) and extractor spring (2) from the slide (3).



11. Remove the firing pin (1) and firing pin spring (2) by elevating the muzzle end of the slide (3).



CAUTION

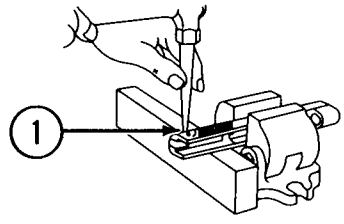
Rear sight can only be removed/reinstalled from the left side of slide.

NOTE

Removal of rear sight is authorized only when replacement is required.

12. Mark a reference line, with a pencil, on top of the slide. The center of the rear sight notch should be alined with the reference line (pencil mark).

13. Clamp the slide into a soft-jawed vise between the breech face and the front sight. Support the slide near the rear sight with a soft support. With a brass punch, tap the rear sight (1) out of the dovetail on slide.



3-10. MAINTENANCE OF SLIDE ASSEMBLY (cont).

CLEANING

Remove dirt and corrosion from powder-fouled parts with wiping rag (item 19, app D) dampened in CLP (item 5, app D)/RBC (item 7, app D). Lightly lubricate with CLP (item 5, app D)/LSA (item 15, app D) after cleaning.

CAUTION

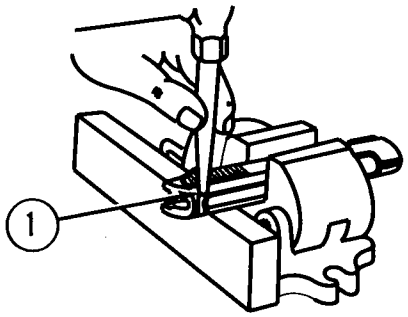
If a honing stone is used to remove burrs or sharp edges, care must be taken to maintain original shape or design.

INSPECTION/REPAIR

Inspect slide for burrs or chips on contact surfaces. Polish with crocus cloth (item 8, app D)/honing stone if necessary. Inspect slide for cracks using inspection penetrant (item 11, app D). Inspect firing pin for mushrooming, pitting, or cracks. If necessary, replace. Firing pin spring should not be bent or broken. If bent or broken, replace. Check rear sight for looseness upon reassembly. If loose, try another rear sight. Decocking/safety lever should not be bent or burred. If bent, replace. If burred, polish with crocus cloth (item 8, app D). Detents and springs should not be bent or broken. If bent or broken, replace. Free length of recoil spring will not be less than 5 inches. If free length is less than 5 inches, replace recoil spring. Extractor hook should not be burred or broken. If broken, replace. Breech face should be smooth with no burrs. If burred, polish with crocus cloth (item 8, app D). All parts should have a dull black finish (except the firing pin and springs). External surface finish is critical. If shiny surfaces exist, use solid film lubricant (item 12, app D).

REASSEMBLY

1. Place the slide into a soft-jawed vise (left side up). Using brass punch, tap the rear sight (1), with notch of sight facing to the rear, into the dovetail. Aline the center of the rear sight notch with the reference line (pencil mark).

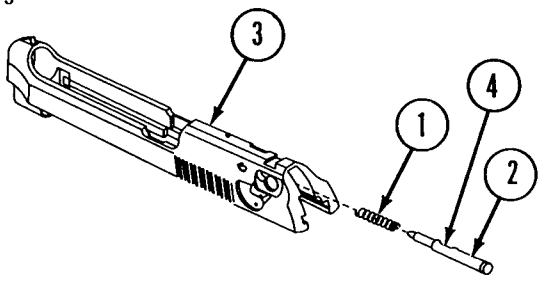


NOTE

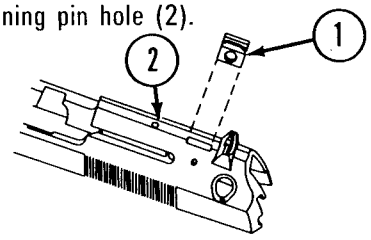
When inserting the firing pin, the firing pin block cutout in the firing pin must be alined to the proper angle with the firing pin block cutout of the slide.

2. Place the firing pin spring (1) onto the forward portion of the firing pin (2).

3. Insert the firing pin (2) and the firing pin spring (1) into the rear of the slide (3) with cutout (4) facing to the right.



4. With a punch, push in on the firing pin. Insert the firing pin block (1) upside down into the firing pin block cutout in the top of the slide. This will ensure that the cutout of the firing pin is alined with the extractor retaining pin hole (2).

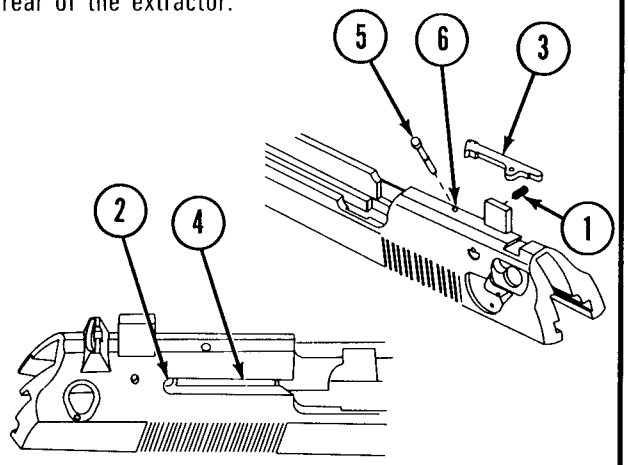


3-10. MAINTENANCE OF SLIDE ASSEMBLY (cont).

REASSEMBLY (cont)

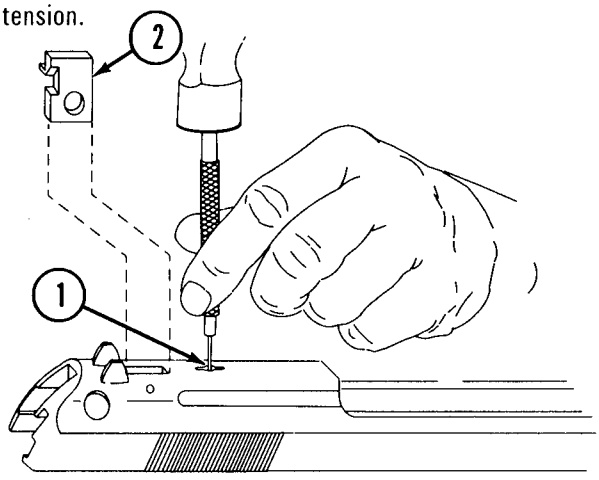
5. Insert the extractor spring (1) into the extractor spring recess hole (2). Insert the extractor (3) into the extractor cutout (4).

6. Insert and push the headed extractor pin (5) into the headed extractor pin hole (6) until it engages and retains extractor (3), while maintaining pressure on the rear of the extractor.

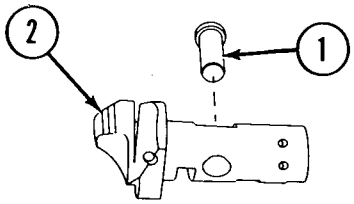


7. Lightly tap in the headed extractor pin (1). With a 3/32 inch punch, lightly tap the headed extractor pin in until seated and stake at the two points parallel with the barrel .

8. Remove firing pin block (2) from the firing pin block cutout. Check extractor to see that it is under spring tension.



9. Insert the firing pin striker (1) into the decocking/safety lever (2).

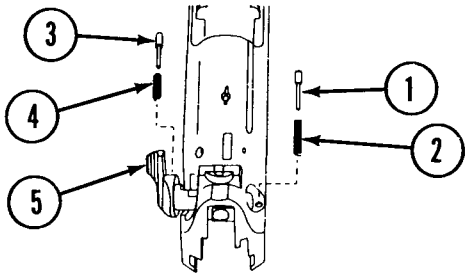


NOTE

The trigger bar detent spring and firing pin block spring are interchangeable. The safety detent spring is slightly larger than the trigger bar detent and firing pin block springs.

10. Preposition the smaller trigger bar detent (1) and 7/16 inch long spring (2) into the trigger bar detent retaining hole. Also preposition the safety detent (3) and 1/2 inch long spring (4) into the decocking/safety lever (5).

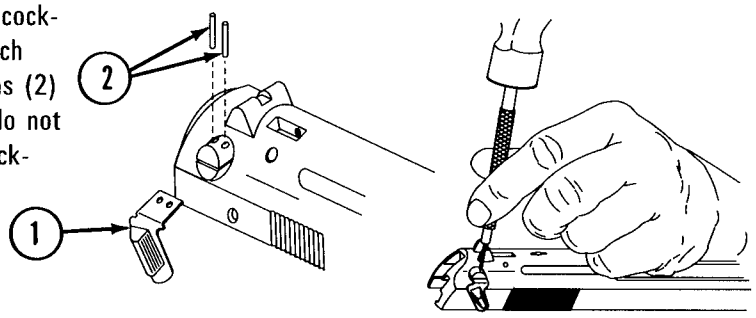
11. Insert the decocking/safety lever into the slide with the safety wing slightly above the fire (up) position. Ensure the rear of the striker is flush with the rear of the decocking/safety lever. Push the decocking/safety lever in until contacting the trigger bar detent (1) and spring (2). With a punch, push downward on the trigger bar detent (1) and spring (2). While maintaining pressure on the trigger bar detent (1), push the decocking/safety lever over the top of the detent. With a punch, push in on the safety detent (3) and spring (4), at the same time, pushing the decocking/safety lever (5) all the way to the right until seated. Rotate the decocking/safety lever (5) to the safe (down) position.



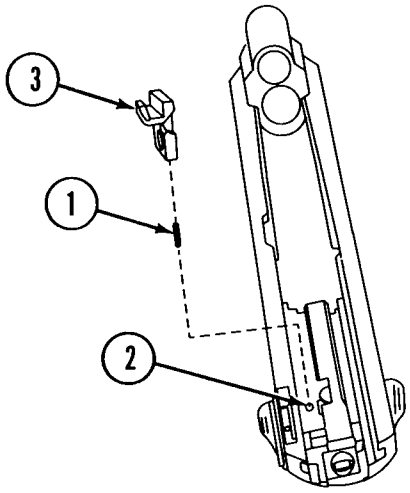
3-10. MAINTENANCE OF SLIDE ASSEMBLY (cont).

REASSEMBLY (cont)

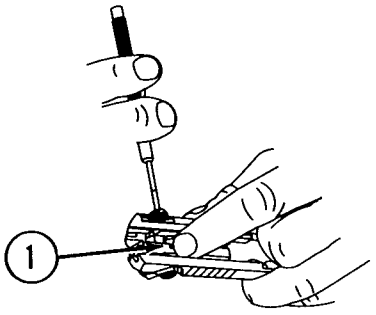
12. Insert the right safety wing (1) onto the decocking/safety lever and aline holes with a 1/16 inch punch. Lightly tap both 1/4 inch long spring pins (2) until slightly below flush making sure the pins do not protrude through the bottom or top of the decocking/safety lever. Rotate the decocking/safety lever to ensure that it moves freely and is retained in both the safe (down) and fire (up) positions.



13. Rotate the slide with sights down. Carefully seat the 7/16 inch long firing pin block spring (1) into the recess hole (2). Insert the firing pin block (3) into the firing pin block cutout.



14. With the forefinger, push in on the firing pin block (1). Place the slide on its side and with a 1/16 inch punch, lightly tap the approximately 1/2 inch long firing pin block spring pin in until slightly below flush. Using the punch, push the firing pin block (1) upward, and ensure that it moves freely under spring tension.



NOTE

When the necessary maintenance task has been completed, reassemble the pistol in accordance with paragraph 3-8.

3-11. MAINTENANCE OF RECEIVER ASSEMBLY.

This task covers:

a. Disassembly
b. Cleaning
c. Inspection/Repair
d. Reassembly

INITIAL SETUP

Tools and Special Tools
Shop Set, Small Arms: Field Maintenance, Basic, Less Power (SC 4933-95-CL-A11)
M9 Grip Screw Bushing Staking Tool

Materials/Parts
Brush, cleaning, small arms: toothbrush (item 3, app D)
Cleaner, lubricant and preservative (CLP) (item 5, app D)
Cleaning compound, solvent: rifle bore cleaner (RBC) (item 7, app D)
Cloth, abrasive, crocus (item 8, app D)
Inspection penetrant (item 11, app D)
Lubricant, solid film (item 12, app D)
Lubricating oil, weapons semi-fluid (LSA) (item 15, app D)
Rag, wiping (item 19, app D)

Materials/Parts (cont)
Ejector spring pin (9346468)
Grip screw bushing (9346473)
Lanyard loop spring pin (D63477/8-101P)
Lanyard loop shouldered straight pin (12446375)

WARNING

Be sure weapon is clear and there are no obstructions in the barrel or chamber.

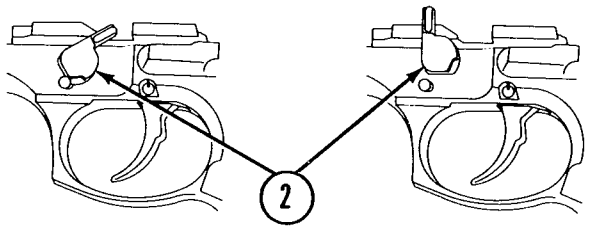
Equipment Condition
Pistol, field stripped

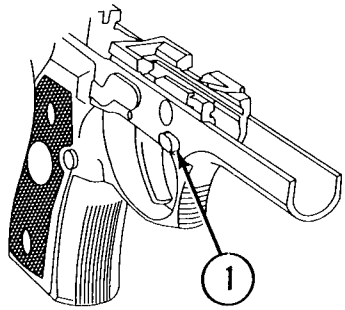
DISASSEMBLY

CAUTION

To prevent loss of disassembly button and spring, be sure to release button pressure slowly after the removal of the disassembly latch lever.

1. Push in on the disassembly latch button (1) and rotate the disassembly latch lever (2) upward until contacting the slide rail. While maintaining firm pressure on the disassembly latch button (1), pull out, and rotate upward to remove the disassembly latch lever (2).

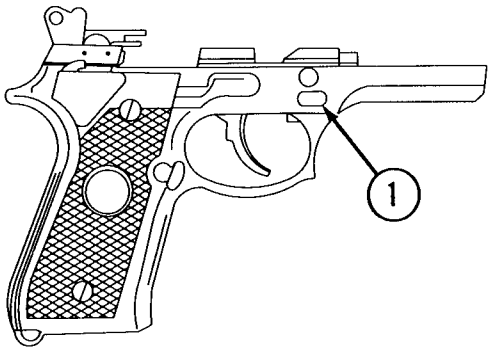


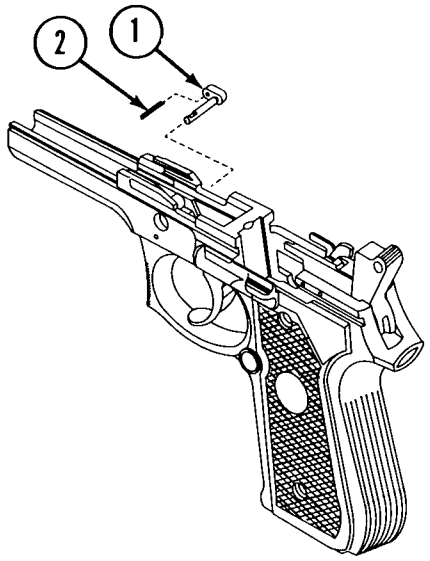


3-11. MAINTENANCE OF RECEIVER ASSEMBLY (cont).

DISASSEMBLY (cont)

2. Remove the disassembly latch button (1) and spring (2).

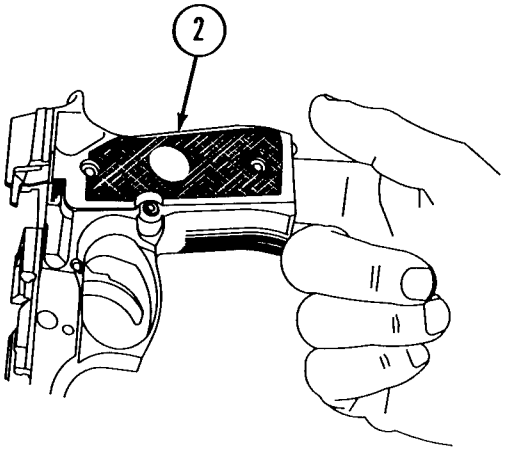


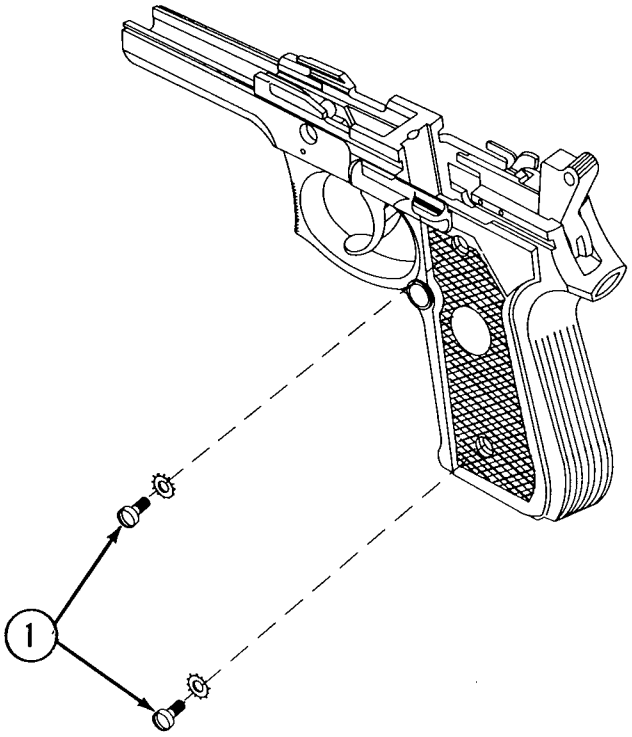


NOTE

When removing each pistol grip, the lockwashers may remain seated or come loose. Be careful not to lose them.

3. Remove the grip screws (1). Using the forefinger, insert the finger into the magazine well and gently lift up on the pistol grip (2). Repeat the procedure to remove the other grip.

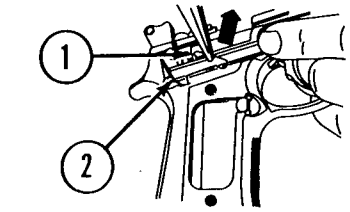




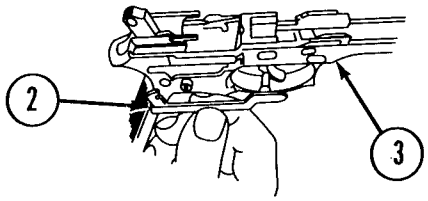
3-11. MAINTENANCE OF RECEIVER ASSEMBLY (cont).

DISASSEMBLY (cont)

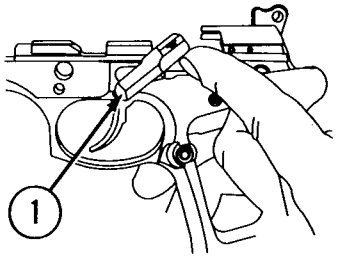
4. Place the receiver on the left side. Locate the trigger bar spring (1) just below the trigger bar (2). With the tip of fingernail or screwdriver, or the use of needle-nosed pliers, carefully unseat the upper portion of the trigger bar spring (1) from the trigger bar (2). Gently lift up and remove the trigger bar spring (1) from the hole in the receiver.

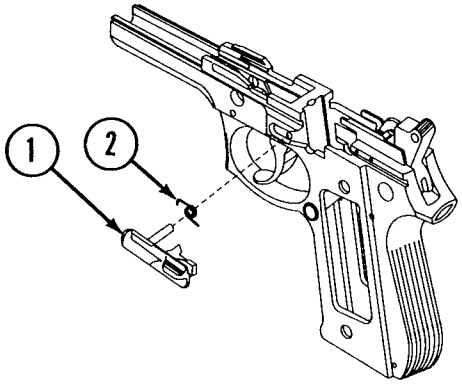


5. To remove the trigger bar (2), unseat the trigger bar by inserting the forefinger into the receiver and pushing outward on the trigger bar. Pull the trigger bar out from the right side of the receiver (3).



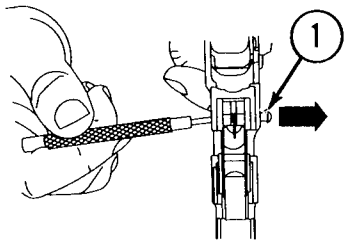
6. Rotate the slide stop (1) slightly upward and pull out until the slide stop can rotate freely downward. Remove the slide stop (1) and slide stop spring (2).





WARNING

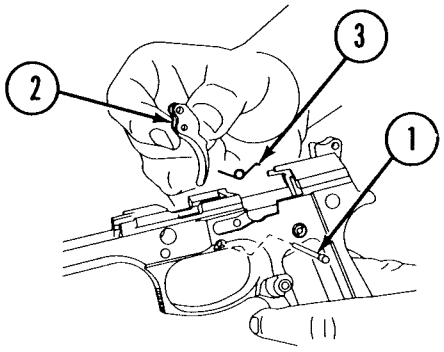
Cover the top of the trigger cavity to prevent ejection or loss of the trigger spring, or possible injury to personnel during removal of the trigger pin.



7. With a 3/32 inch punch, push the headed trigger pin (1) out from right to left.

NOTE

Trigger spring may have a bent leg on one or both ends.



8. To remove the trigger (2) and the trigger spring (3), push upward on the trigger and pull out.

3-11. MAINTENANCE OF RECEIVER ASSEMBLY (cont).

DISASSEMBLY (cont)

NOTE

Two different types of pins can retain the lanyard loop - a spring pin or a shouldered straight pin. The spring pin has a hole through it, and the shouldered straight pin is solid.

SPRING PIN DISASSEMBLY PROCEDURES

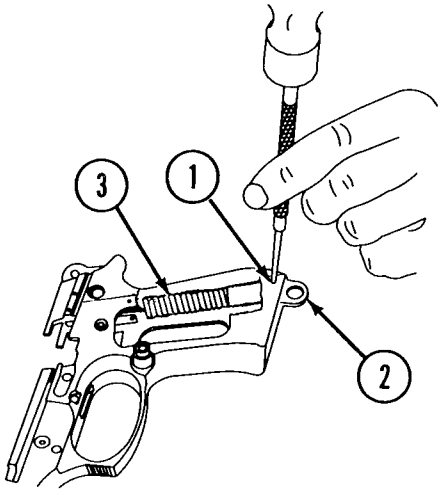
WARNING

During removal of the lanyard loop spring pin, be sure the punch is left in place to prevent accidental loss of parts or injury to personnel.

CAUTION

Ensure hammer is in the down or forward position.

9. With a 1/8 inch punch, drive out the lanyard loop spring pin (1) leaving the punch in place. Place the lanyard loop (2) on a soft support and push down firmly on the top of the receiver to overcome the mainspring (3) tension. While maintaining downward pressure, remove the punch and slowly release pressure to remove the lanyard loop (2) and the mainspring (3).



SHOULDERED STRAIGHT PIN DISASSEMBLY PROCEDURES

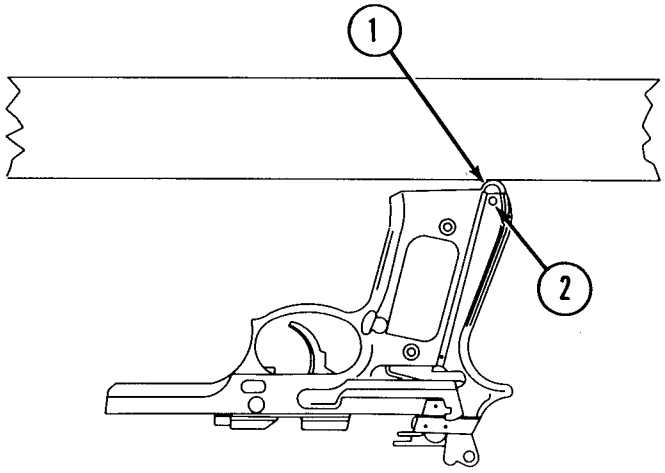
WARNING

During removal of the shouldered straight pin, carefully allow the mainspring to expand to prevent injury to personnel or accidental loss of parts.

CAUTION

Ensure hammer is in the down or forward position.

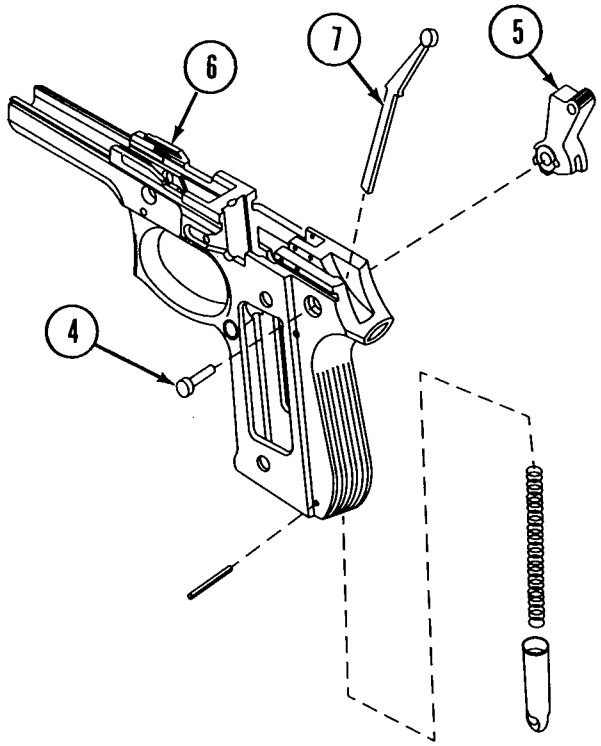
9. Hold the pistol in a horizontal position with bottom of receiver against the edge of a table. Press in on the lanyard loop (1) using a pumping action. Shouldered straight pin (2) should fall free from pistol. Carefully allow mainspring to expand to its free length.



3-11. MAINTENANCE OF RECEIVER ASSEMBLY (cont).

DISASSEMBLY (cont)

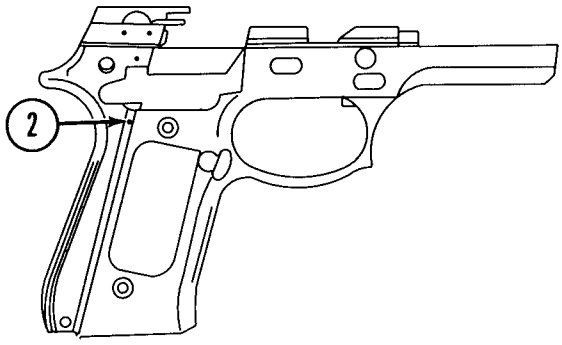
10. Using a punch, remove the headed hammer pin (4) by pushing out from right to left. Lift up and remove the hammer (5) from the receiver (6). Rotate the receiver upside down to allow the hammer strut (7) to fall free.

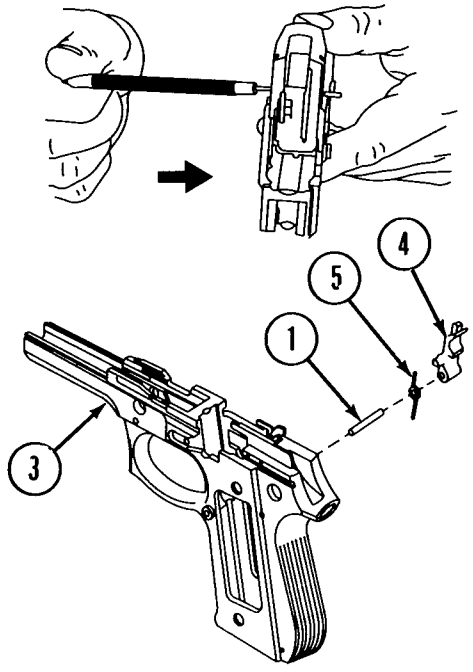


CAUTION

During removal of the sear pin, use the finger to maintain control of the sear spring to prevent ejection and/or loss.

11. With 3/32 inch punch, push the sear pin (1) out of the sear pin hole (2). Rotate the receiver (3) to allow the sear (4) and the sear spring (5) to fall free.



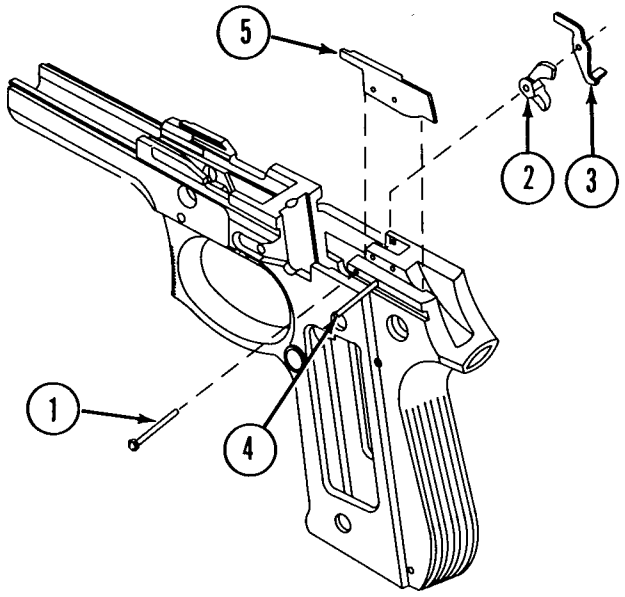


3-11. MAINTENANCE OF RECEIVER ASSEMBLY (cont).

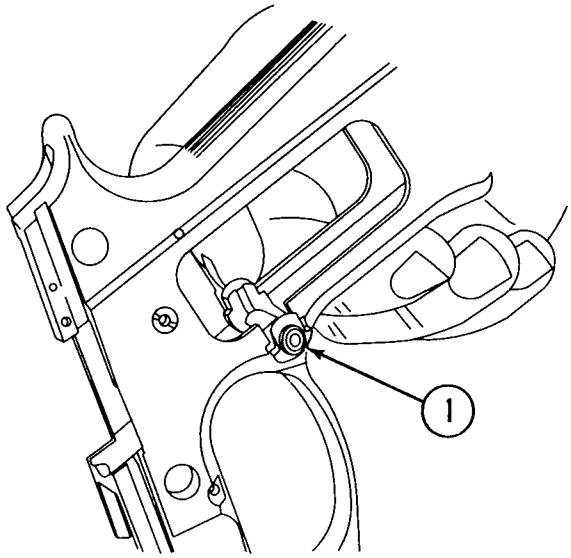
DISASSEMBLY (cont)

12. Place the receiver on its left side. With a 1/16 inch punch, lightly tap out the headed straight pin (1). Remove the hammer release lever (2) and firing pin block lever (3).

13. With a 1/16 inch punch, lightly tap out the ejector spring pin (4) from right to left. Remove ejector (5).



14. Remove the magazine catch assembly (1) by pushing in and to the rear with the tip of the finger on the side opposite the magazine release button.



3-11. MAINTENANCE OF RECEIVER ASSEMBLY (cont).

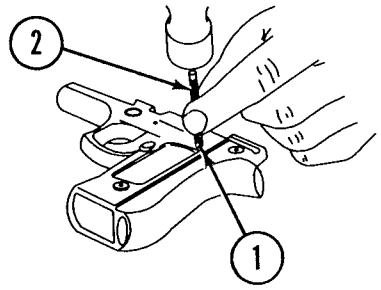
DISASSEMBLY (cont)

CAUTION

During removal of grip screw bushings from the right side of the receiver, be sure slide stop is removed from the receiver to prevent possible damage.

NOTE

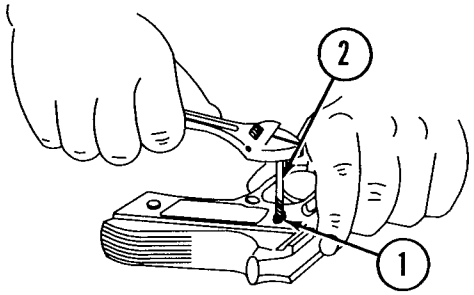
Removal of grip screw bushing is authorized only when replacement is required.



15. In order to remove damaged grip screw bushing (1) using an electric drill with a 1/8 inch drill bit, drill through the center of the bushing (1).

16. Insert a No. 1 easy-out extractor (2) into the 1/8 inch hole. With small hammer, firmly tap easy-out extractor (2) into bushing (1).

17. Using an adjustable open-end wrench, carefully and slowly turn easy-out extractor (2) in a counter-clockwise direction and remove the bushing (1).



CLEANING

Remove dirt and corrosion from powder-fouled parts with wiping rag (item 19, app D) dampened in CLP (item 5, app D). Lightly lubricate with CLP (item 5, app D)/LSA (item 15, app D) after clearing.

After bushing is removed, clean out internal threads in the receiver with toothbrush (item 3, app D).

INSPECTION/REPAIR

1. Check receiver for distortion and burrs. If receiver is distorted, receiver is unserviceable.

CAUTION

If a honing stone is used to remove burrs or sharp edges, care must be taken to maintain the original shape or design.

2. Remove burrs from parts with a fine honing stone or crocus cloth (item 8, app D).

3. Check pins for distortion, cracks or excessive wear. Replace if distorted, cracked, or excessively worn.

4. Check springs for breaks, cracks, or distortion. Free length of mainspring will not be less than 2 inches. Replace broken, cracked or permanently set springs.

5. Check receiver rails and receiver with inspection penetrant (item 11, app D) If cracks are detected, receiver is unserviceable.

6. External surface finish is critical. If shiny surfaces exist, use solid film lubricant (item 12, app D).

3-11. MAINTENANCE OF RECEIVER ASSEMBLY (cont).

REASSEMBLY

NOTE

Tip of a screwdriver should be modified to fit the slot on the replacement grip screw bushing.

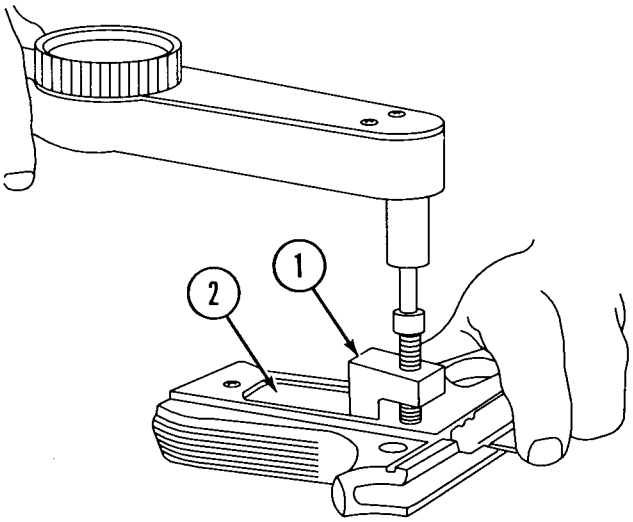
1. With screwdriver, slowly screw replacement grip screw bushing into the receiver. Tighten grip screw bushing until snug.

2. Insert fabricated staking tool (1, app E) into magazine well window (2). At the same time, center staking point and recessed area of capscrew onto bushing . Using a 3/8 inch torque wrench, carefully torque capscrew to between 110-115 in/lbs.

3. Unscrew staking tool (1) and remove.

4. Use a fine file or honing stone to remove rough edges around bushing inside the magazine well.

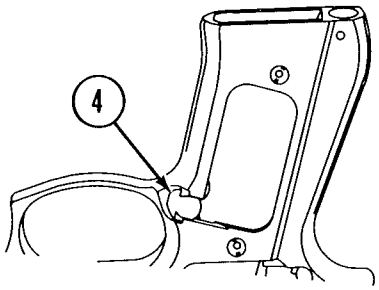
5. Touch up with solid film lubricant (item 12, app D).

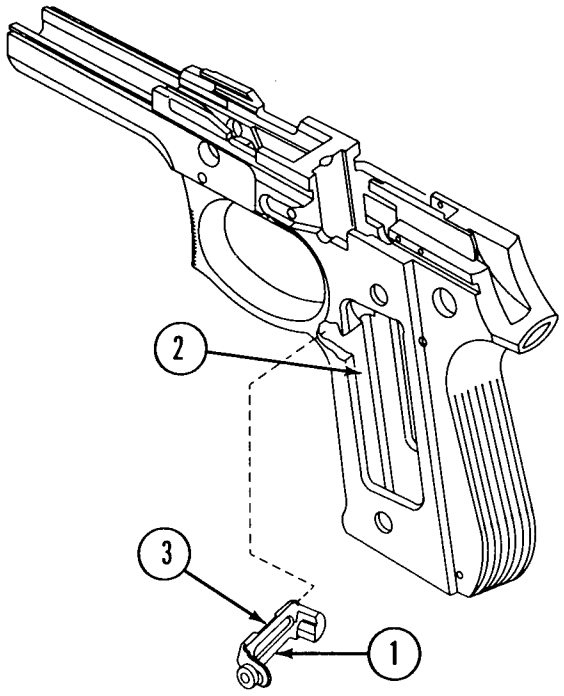


NOTE

To reverse the magazine catch assembly, install the button on the opposite side.

6. To install the magazine catch assembly (1), insert the magazine catch assembly through the magazine well window (2) at an angle. The long bushing (3) of the magazine catch assembly (1) must catch on the edge of the magazine catch assembly cutout (4). At the same time, push in on the flat side of the magazine catch assembly (1) and push down to seat. This will be indicated by a click.

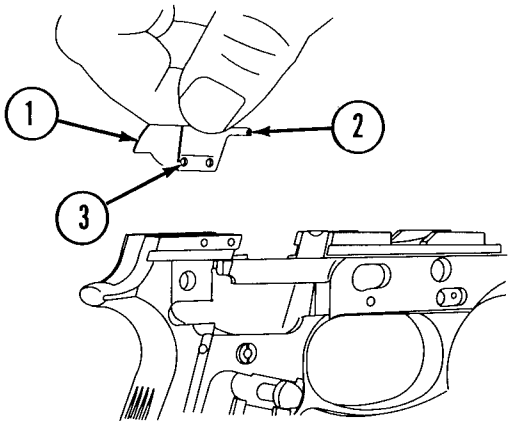


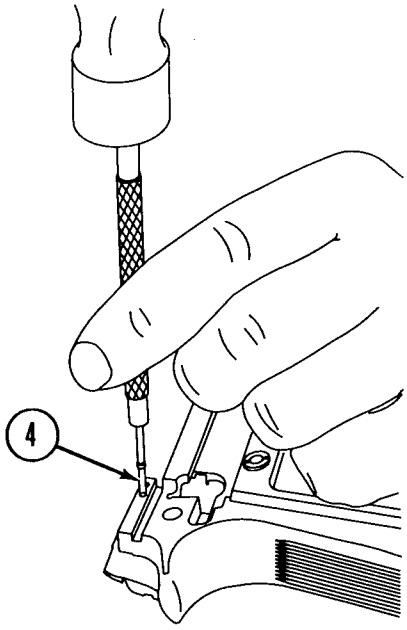


3-11. MAINTENANCE OF RECEIVER ASSEMBLY (cont).

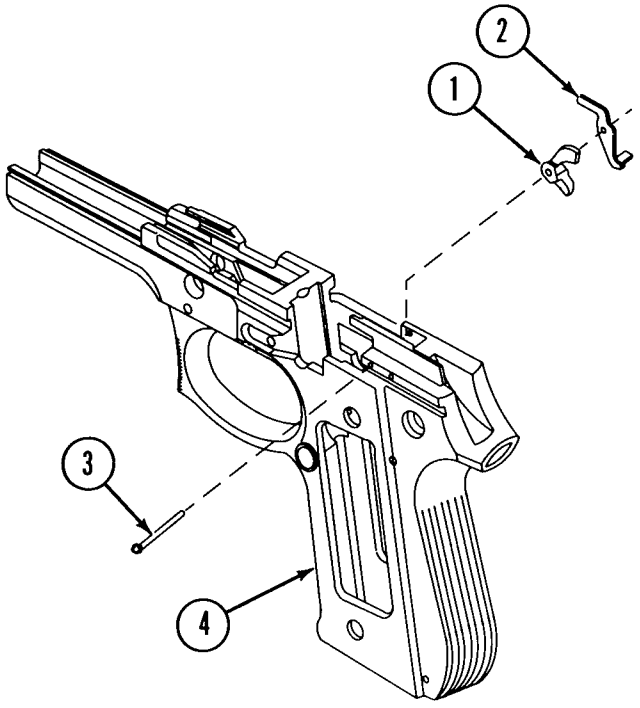
REASSEMBLY (cont)

7. Install the ejector (1) with the pointed/notched end (2) forward and aline the ejector pin hole (3) with a 1/16 inch punch. Lightly tap the ejector spring pin (4) in until slightly below flush.





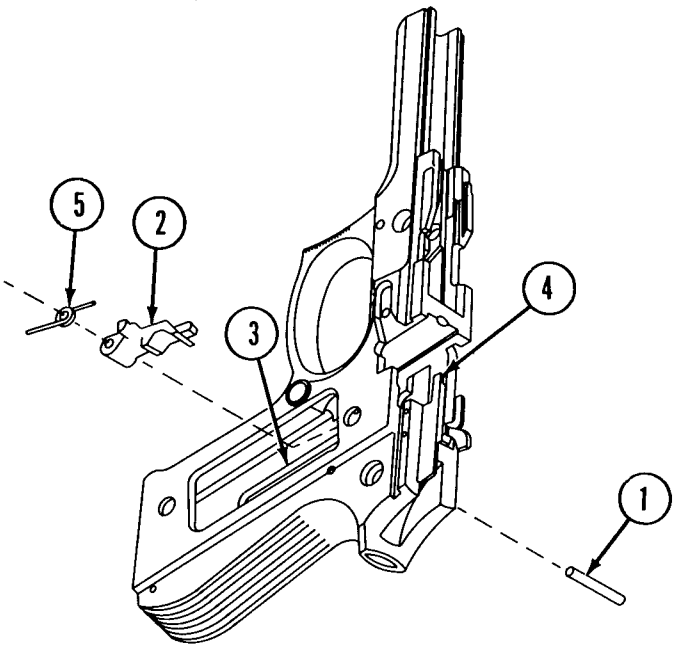
8. To install the hammer release lever (1) and the firing pin block lever (2), preposition the headed straight pin (3) into the left side of the receiver (4). Position the hammer release lever (1) with the curved arm pointing up and to the rear. Then push the headed straight pin (3) in until it holds the hammer release lever in position. Insert the firing pin block lever (2) with the bent foot extending through the upper magazine well window cutout. Carefully aline the firing pin block lever hole with a punch and lightly tap in the headed straight pin (3), and stake. (Always stake in the center of rail at the 9 or 3 o'clock position.) Check that both the hammer release lever (1) and the firing pin block lever (2) pivot freely.

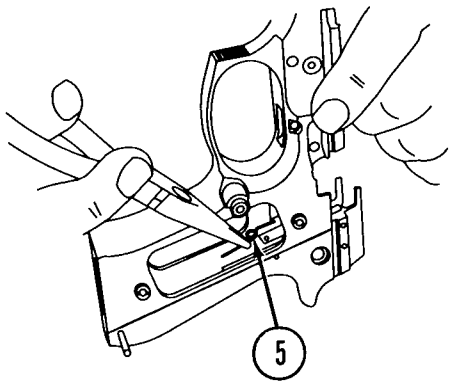


3-11. MAINTENANCE OF RECEIVER ASSEMBLY (cont).

REASSEMBLY (cont)

9. Preposition the sear pin (1) into the right side of the receiver with the muzzle end of the receiver facing upward. Insert the sear (2), with the flat side up, through the magazine well window (3). Slide the sear (2) toward the ejector (4). Lower the sear into the sear cutout alining the hole in the sear with the hole in the receiver. At the same time, push the sear pin (1) in until it holds the sear in position. Install the sear spring (5) with the short leg toward the ejector, and the curved portion of the spring coil facing towards the magazine well. With a punch, push down on the spring coil (5) and, at the same time, push in the sear pin.

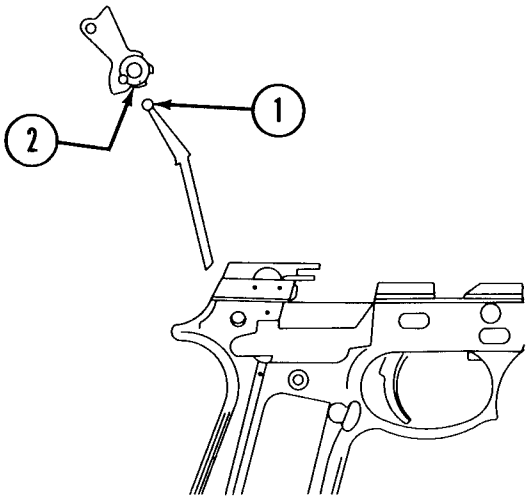




NOTE

Be sure the straight end of the hammer strut is down and the curved/rounded end is facing the rear.

10. Insert the rounded end of the hammer strut (1) into the recess in the hammer (2).



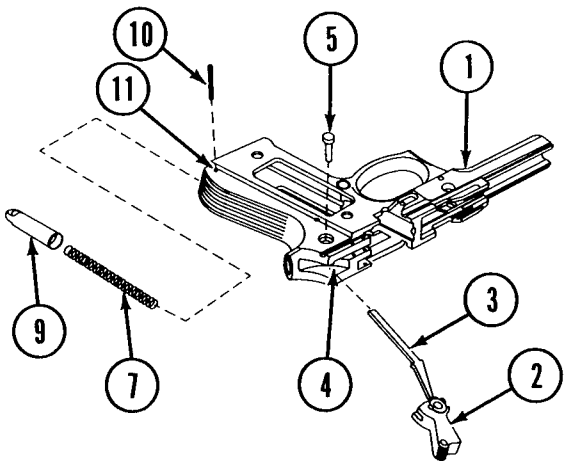
3-11. MAINTENANCE OF RECEIVER ASSEMBLY (cont).

REASSEMBLY (cont)

11. With the receiver (1) resting on the right side, insert the hammer (2) and hammer strut (3) into the hammer cavity (4).

12. Aline the hammer with the hole in the receiver and insert the straight headed hammer pin (5) into the left side of the receiver until seated.

13. Rotate the receiver (1) until the bottom of the magazine well (6) faces upward. Insert the mainspring (7) into the bottom of the mainspring cavity (8). Carefully aline the mainspring (7) onto the hammer strut (3).



NOTE

Two different designs of the lanyard loop support the mainspring in the receiver. One lanyard loop is symmetrical and the other is not.

Shouldered straight pin (NSN 5315-01-236-0340) is the preferred replacement part for either lanyard loop.

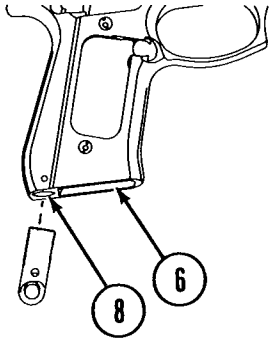
SPRING PIN REASSEMBLY PROCEDURES

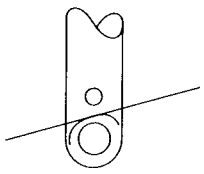
CAUTION

Downward pressure must be maintained on the lanyard loop to overcome the main-spring pressure. A 1/8 inch punch should be used to aline the lanyard loop spring pin hole with the hole in the receiver. This will allow alinement of the lanyard loop spring pin during installation.

Ensure hammer is in the down or forward position.

14. Install the lanyard loop (9) into the mainspring cavity (8) with the cutout forward. Rotate the receiver (1) and rest the lanyard loop (9) on a soft support. Compress the mainspring (7) by pushing down on the receiver (1). At the same time, insert a 1/8 inch punch to aline the lanyard loop spring pin (10) with the lanyard loop pin hole (11). Drive the lanyard loop spring pin (10) in until slightly below flush.





NONSYMMETRICAL

The nonsymmetrical lanyard loop must be installed into the mainspring cavity with the cutout forward.

3-11. MAINTENANCE OF RECEIVER ASSEMBLY (cont).

REASSEMBLY (cont)

SHOULDERED STRAIGHT PIN REASSEMBLY PROCEDURES

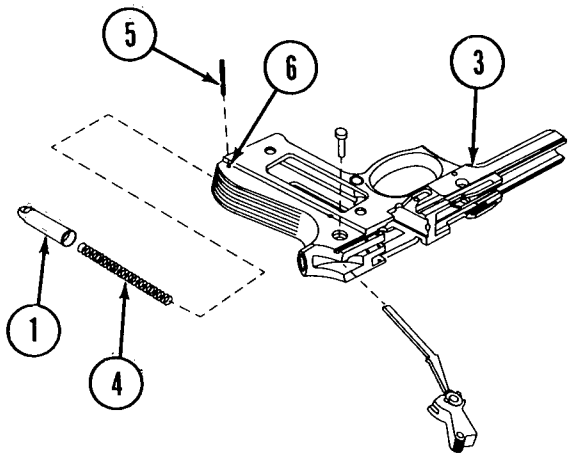
CAUTION

Ensure hammer is in the down or forward position.

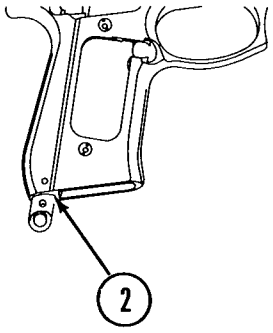
NOTE

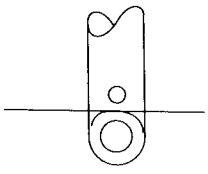
Two different designs of the lanyard loop support the mainspring in the receiver. One lanyard loop is symmetrical and the other is not.

Shouldered straight pin (NSN 5315-01-236-0340) is the preferred replacement part for either lanyard loop.



14. Install the lanyard loop (1) into the mainspring cavity (2). Rotate the receiver (3) to the horizontal position and rest the lanyard loop against the edge of a table. Compress the mainspring (4) by pushing in on the receiver (3). At the same time, aline the shouldered straight pin (5) with the lanyard loop pin hole (6). Push the shouldered straight pin (5) in until slightly below flush.





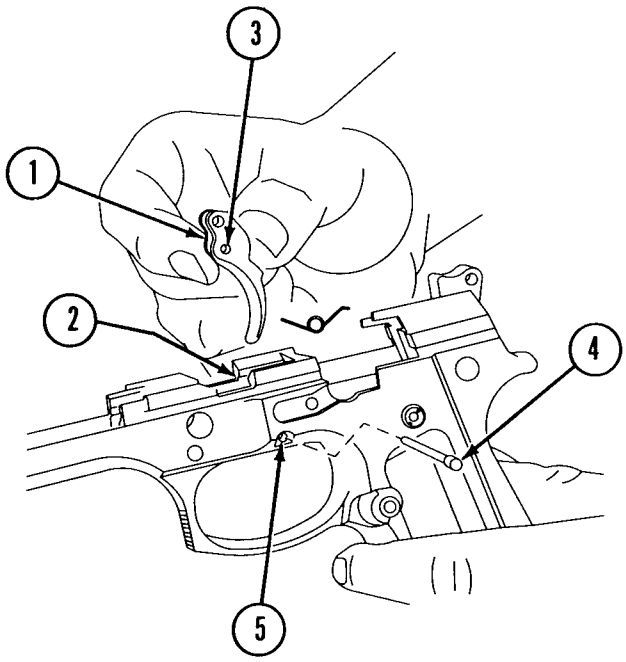
SYMMETRICAL

The symmetrical lanyard loop can be installed either way.

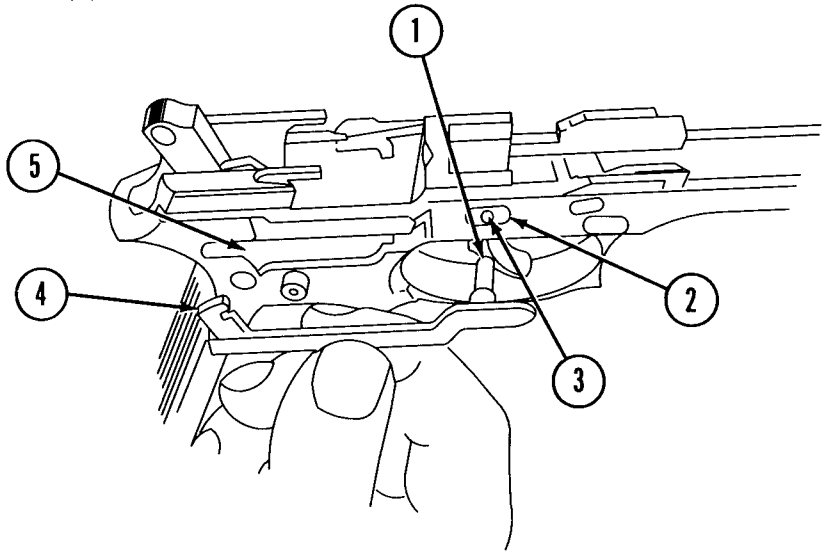
3-11. MAINTENANCE OF RECEIVER ASSEMBLY (cont).

REASSEMBLY (cont)

15. Install the trigger (1) into the trigger cavity (2). Aline the lower hole (3) of the trigger with the hole in the receiver. Insert the trigger pin (4) into the left side of the receiver (5) until it holds the trigger in position.



16. Insert the trigger bar post (1) through the oval slot (2) into the trigger bar post hole of the trigger (3). At the same time, insert the trigger bar lug (4) into the trigger bar lug cutout (5) of the receiver.



3-11. MAINTENANCE OF RECEIVER ASSEMBLY (cont).

REASSEMBLY (cont)

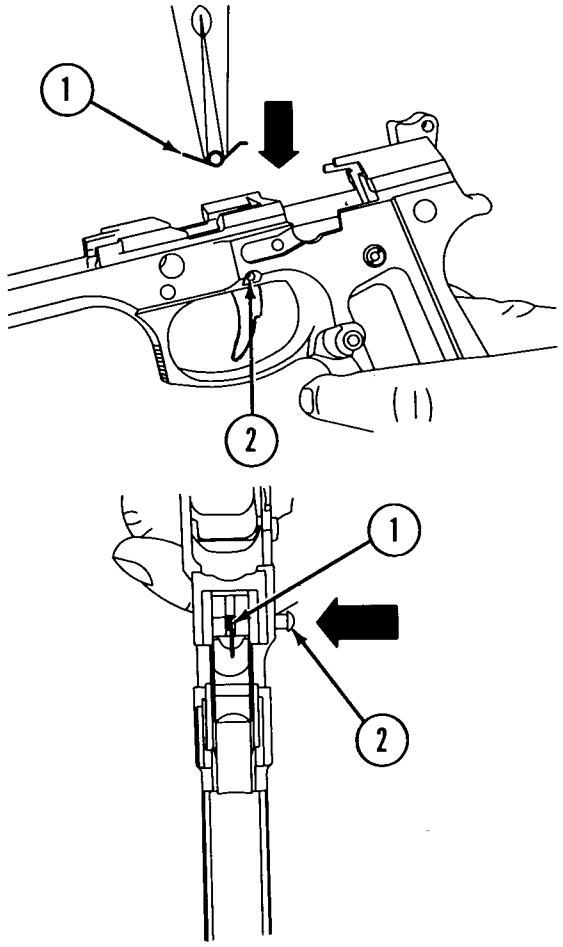
WARNING

When applying pressure to the center/coil area of trigger spring, use care to prevent ejection of trigger spring as it could become lost or cause possible injury to personnel.

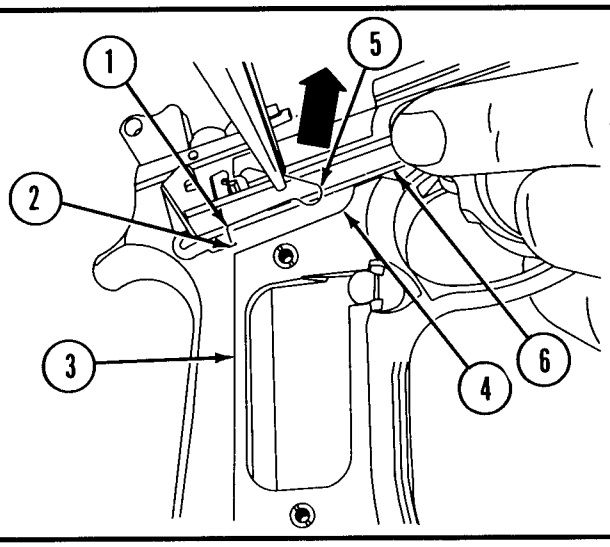
NOTE

If both ends of the trigger spring are bent, the following step still applies.

17. With a needle-nose pliers, grasp the trigger spring (1) in the center/coil area with the straight leg of the spring forward and the bent leg facing to the rear. Lower the trigger spring into the trigger spring cutout, ensuring that the bent leg of the trigger spring is resting on top of the trigger bar post. With a screwdriver, push down on the center/coil area and at the same time, push the trigger pin (2) in until seated.



18. With a needle-nose pliers, install the 90 degree angle end of the trigger bar spring (1) into the trigger bar spring retaining hole (2) in the receiver (3). Then insert the rounded loop end of the trigger bar spring into the trigger bar spring groove (4) of the receiver. With a screwdriver, fingernail, or needle-nose pliers, pull down and insert the slightly curved end (5) of the trigger bar spring into the bottom groove of the trigger bar (6).



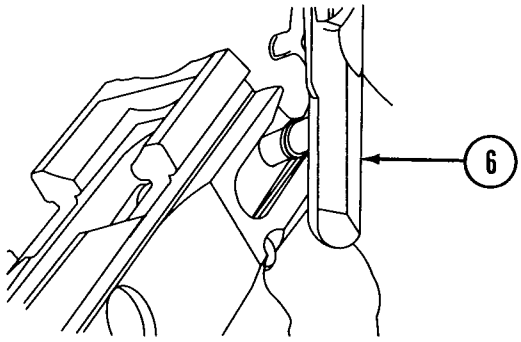
3-11. MAINTENANCE OF RECEIVER ASSEMBLY (cont).

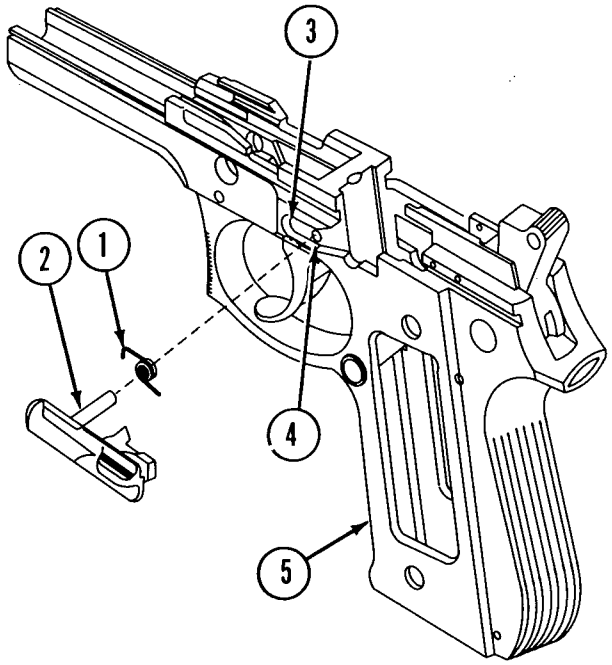
REASSEMBLY (cont)

NOTE

Ensure the bent leg of the slide stop spring retains the trigger pin after installation.

19. Install the slide stop spring (1) on to the slide stop post (2) with the straight leg resting in the slide stop spring cutout (3) and the bent leg pointing down. Insert the bent leg of the slide stop spring into the forward slide stop cutout hole (3). At the same time, insert the slide stop post (2) into the slide stop hole (4) of the receiver (5). Rotate the slide stop (6) slightly upward and push in until seated.

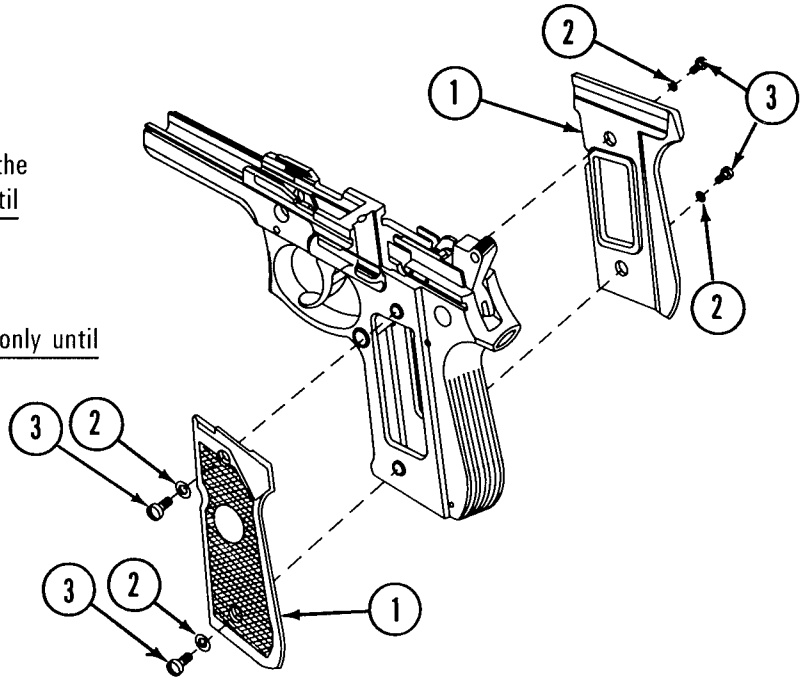




CAUTION

Damage will occur from over-tightening the grip screws. Tighten grip screws only until snug.

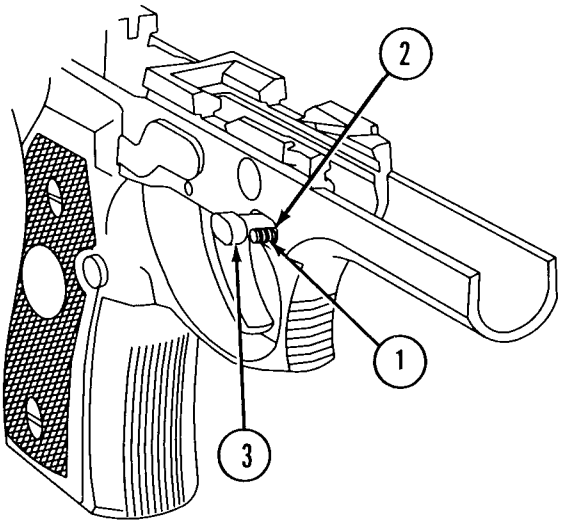
20. Install the left and right pistol grips (1), lockwashers (2), and grip screws (3). Tighten only until snug.



3-11. MAINTENANCE OF RECEIVER ASSEMBLY (cont).

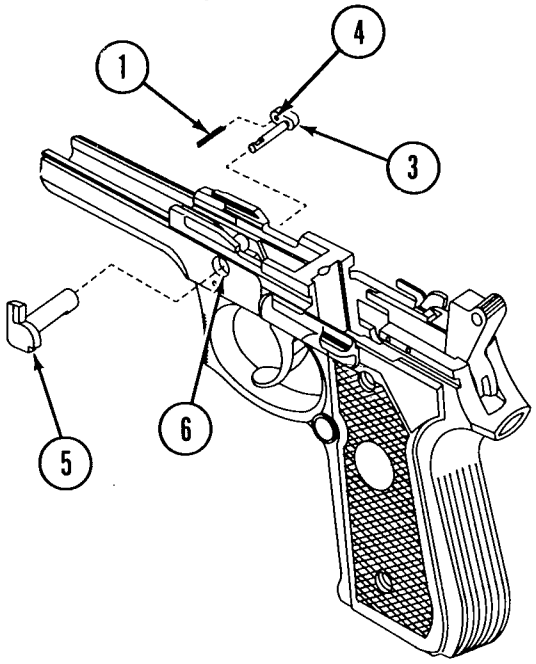
REASSEMBLY (cont)

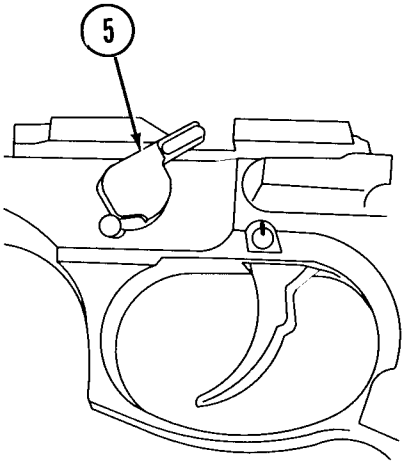
21. Install the disassembly button spring (1) into the spring recess hole (2). Insert the disassembly button (3) alining the disassembly button spring (1) into the disassembly button spring recess (4). With the forefinger, firmly push in on the disassembly button. At the same time, insert the disassembly lever (5) with the wing pointing upward, into the disassembly lever hole (6) of the receiver. While maintaining firm pressure on the disassembly button (3), rotate the disassembly lever (5) rearward and down until seated.



NOTE

When the necessary maintenance task has been completed, reassemble the pistol in accordance with paragraph 3-8.





3-12. FINAL INSPECTION.

This task covers:
a. General Inspection
b. Safety/Function Check
c. Trigger Pull Test
d. Function-firing Test

INITIAL SETUP

Tools and Special Tools
Shop Set, Small Arms, Field Maintenance Basic, Less Power (SC 4933-95-CL-A11)
Trigger pull test fixture

WARNING

Be sure pistol is clear and there are no obstructions in the barrel or chamber. Do not keep live ammunition near work/maintenance area.

NOTE

Final inspection should be done after all maintenance actions. This inspection ensures that pistols are serviceable when returned to user or stock.

Equipment Condition
Pistol assembled (see para 3-8)

GENERAL INSPECTION

1. Check the overall condition of the pistol and make sure black finish surfaces do not reflect light.

2. Check the tightness of all attaching screws.

3. Check for adequate lubrication.

4. Check for missing parts.

5. Make an overall inspection of the pistol for cleanliness and general appearance.

6. Refer to paragraph 3-14 for preembarkation inspection criteria and specific standards.

SAFETY/FUNCTION CHECK

WARNING

Before performing the following safety/function check, clear the pistol and magazine in accordance with the unloading procedures in the operator's manual.

1. Depress the slide stop. Insert an empty magazine into the pistol, and ensure that the magazine catch assembly locks the magazine in place.

2. Retract the slide and release it. The magazine follower should push up on the slide stop, locking the slide to the rear.

3. Rotate the decocking/safety lever to the fire (up) position. With a 1/16 inch punch, push up on the bottom side of the firing pin block. At the same time, push in on the firing pin striker with a 1/8 inch punch. Ensure the firing pin protrudes through the breech face of the slide.

4. Depress the magazine release button allowing the magazine to fall free.

5. Rotate the decocking/safety lever to the safe (down) position. Depress the slide stop allowing the slide to return fully forward. At the same time, the hammer should return to the full forward position.

6. Squeeze and release trigger. Firing pin block should move up and down. Hammer should not move. The trigger should return to the full forward position under spring tension.

7. Place decocking/safety lever in fire (up) position.

8. Squeeze trigger to check double action. Hammer should cock and fall.

9. Squeeze trigger again and hold to rear. Manually retract and release slide while holding trigger to the rear. Release trigger, click should be heard, and hammer should not fall.

10. Squeeze trigger to check single action. Hammer should fall.

11. If the above safety/function checks perform as indicated, pistol is mission ready. If the checks do not perform as indicated, refer to intermediate direct support for troubleshooting procedures (see para 3-6).

3-12. FINAL INSPECTION (cont).

TRIGGER PULL TEST

1. Place test fixture (1) on bench and add test weights (2) until minimum load of 4.0 lbs is reached.

2. Single Action: Place the decocking/safety lever (3) in the fire (up) position and manually cock hammer (4).

3. Hold the pistol (5) in a vertical position. Place the end of the test fixture (1) over the trigger (6). Slowly raise the pistol in a line parallel to the barrel until the fixture and weights are suspended.

4. The hammer (4) must not fall. If the hammer falls, the trigger pull is too light and the sear and/or hammer must be replaced. Replace the sear and/or hammer in accordance with the maintenance procedures provided in paragraph 3-11. If replacement of hammer and/or sear fails to correct light trigger pull, inspect mainspring for correct free length. Replace if necessary (para 3-11).

5. Add weights until maximum load of 6.5 lbs is reached. Repeat the above procedures. The hammer (4) must fall. If the hammer does not fall, replace the sear and/or hammer (see para 3-11).

NOTE

Ensure that decocking/safety lever is in the fire (up) position.

6. Double Action. The hammer (4) must be forward to begin test. Do not cock the hammer. Add test weights (2) until minimum of 9.5 lbs is reached.

7. Hold the pistol (5) in a vertical position. Place the end of the test fixture (1) over the trigger (6). Slowly raise the pistol in a line parallel to the barrel until the fixture and weights are suspended.

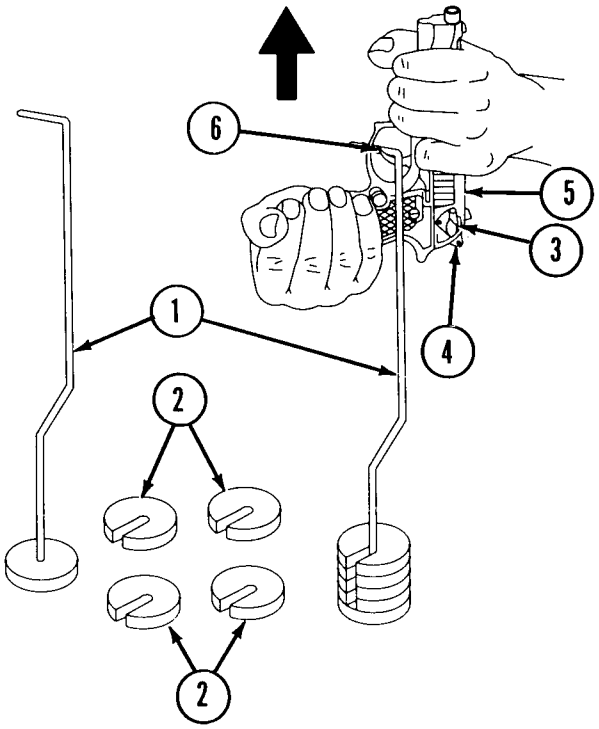
8. The hammer (4) must not fall. If the hammer falls, the trigger pull is too light and the trigger bar and/or hammer must be replaced. Replace the trigger bar and/or hammer in accordance with the maintenance procedures provided in paragraph 3-11. If replacement of hammer and/or trigger bar fails to correct light trigger pull, inspect mainspring for correct free length. Replace if necessary.

9. Add weights (2) until a maximum load of 16.5 lbs is reached. In order to reach the maximum weight of 16.5 lbs, both trigger pull test fixtures, which are included in the shop set, small arms, SC 4933-95-CL-A11, must be used. A new trigger pull test fixture rod must be fabricated to accommodate all weights totaling 16.5 lbs. Fabrication drawing is shown in appendix E (pg E-2).

10. Repeat the procedures called out in paragraph 7. The hammer must cock and fall. If the hammer does not meet these requirements, replace the trigger bar and/or hammer (see para 3-11) and retest.

NOTE

If a part has been replaced to correct single or double action trigger pull, repeat the complete trigger pull test.



3-12. FINAL INSPECTION (cont).

FUNCTION-FIRING TEST

WARNING

Before performing the function-fire test, be sure to clear the pistol. Do not squeeze the trigger until the pistol has been cleared. Inspect the chamber to be sure that it is empty. Check to see that there are no obstructions in the barrel.

1. If possible, upon completion of maintenance procedures, the M9 Pistol should be function-fired to assure proper operation.

2. Fire three rounds in single action.

3. Fire three rounds in double action.

4. If a test firing facility or live ammunition is not available, use dummy ammunition to check chambering, extraction, and ejection.

WARNING

Be sure pistol is clear and there are no obstructions in the barrel or chamber.

5. Upon completion of function-firing test, clean and lubricate the pistol in accordance with paragraph 3-8 or the operator's manual.

Section V. PREPARATION FOR STORAGE OR SHIPMENT

3-13. PREPARATION FOR STORAGE OR SHIPMENT.

Refer to paragraph 2-15 for M9 (9mm) pistol cleaning, preservation, packaging, packing and marking.

Section VI. PREEMBARKATION INSPECTION OF MATERIEL IN UNITS ALERTED FOR OVERSEAS MOVEMENT

3-14. PREEMBARKATION INSPECTION OF MATERIEL IN UNITS ALERTED FOR OVERSEAS MOVEMENT.

a. Inspection Criteria.

WARNING

Before starting an inspection, be sure to clear the weapon. Make sure the magazine is removed, the pistol is clear of ammunition and the barrel and chamber have no obstructions.

(1) Before inspection, the materiel must be thoroughly cleaned of all grease, dirt, or other foreign matter that might interfere with its proper function or the use of gages and tools during inspection.

(2) The pistol must be free of burrs, rust, and corrosion.

(3) Parts must not be loose, cracked, bent, distorted, or damaged and must be free of excessive wear.

(4) Minor defects in metal components do not normally affect their acceptability. For example, tool marks are ordinarily of no importance.

(5) Inspect finish of metal surface. Satisfactory metal surfaces for weapons range from black to light gray. Weapons will be rejected if exterior parts have a reflective surface. Sights must have a dull gray or black finish on surfaces to prevent glare.

3-14. PREEMBARKATION OF MATERIEL IN UNITS ALERTED FOR OVERSEAS MOVEMENT (cont).

b. Inspection Areas.

(1) Springs must be free of distortion and broken coils. Springs must have sufficient tension to perform their intended function.

(2) Barrel must be clean and free of rust and corrosion.

(3) Barrel must not be bulged.

(4) Pits in the bore are allowable if they do not exceed the width of a land and 3/8 inch in length.

(5) If chipping or flaking are present in the chamber and/or bore area, it is cause for rejection of the barrel.

(6) Tool marks are acceptable. They may appear as lines running longitudinally in the grooves or may run spirally across the tops of lands.

(7) Lands that appear dark will not be cause for rejection because of coating of guilding metal from projectiles.

(8) The sear and cocking notches must be in good condition. Chipped engaging corners will be cause for rejection. Slight wear on functional surfaces, including engaging corners, shall be acceptable, providing the minimum trigger pull requirements are met.

(9) Chips, flat spots, pits or bent strike points on firing pins will be cause for rejection of firing pins.

(10) The cartridge case engaging surfaces on the extractor must not be chipped or deformed.

(11) The decocking/safety lever must position positively in both the safe (down) and fire (up) position. When in the safe position, the pistol must not fire when the trigger is squeezed; when in the fire position, the pistol must fire when the trigger is squeezed.

(12) Each pistol must be hand functioned to check for unusual binding, positive cocking action, and general operation. Dummy ammunition may be used to be sure of positive chambering, extraction, and ejection action.

(13) All markings and serial numbers must be legible.

c. Specific Standards. Refer to table 3-2.

Table 3-2. STANDARDS FOR PREEMBARKATION INSPECTION OF M9 9mm PISTOL IN UNITS ALERTED FOR OVERSEAS MOVEMENT

ITEM	STANDARD
General	Clear weapon of any ammunition and inspect in accordance with procedures outlined above.
Trigger Pull	
Double Action	Between 9.9 lbs and 16.1 lbs
Single Action	Between 4.0 lbs and 6.4 lbs
Recoil Spring	Free length of spring will not be less than 5 inches. A "flat" spot on either end of the half coil is not required. If flat spots are present other than on the ends of the spring, it is cause for rejection of the spring.
Mainspring	Free length of spring will not be less than 2 inches. A "flat" spot on either end of the half coil is not required. If flat spots are present other than on the ends of the spring, it is cause for rejection of the spring.

APPENDIX A
REFERENCES

A-1. SCOPE. This appendix lists all forms, field manuals, technical manuals, tables, regulations, standards, and miscellaneous publications referenced in this manual.

A-2. TECHNICAL MANUALS.

OP 4	Ammunition and Explosives Afloat
OP 5	Ammunition and Explosives Ashore
TM 9-1005-317-10	Operator's Manual Pistol, Semiautomatic, 9mm, M9
TM 43-0001-27	Army Ammunition Data Sheets Small Caliber Ammunition FSC (1305)
TM 740-90-1	Administrative Storage of Equipment
TM 750-244-7	Procedures for Destruction of Equipment to Prevent Enemy Use
TM 4700-15/1	Equipment Record Procedures
TO 11W-1-10	Recording of Inspection, Maintenance and Firing Data for Ground Weapons

A-3. COMMON TABLE OF ALLOWANCES (CTA).

CTA 8-100	Army Medical Department Expendable/Durable Items
CTA 50-970	Expendable/Durable Items (except: Medical, Class V, Repair Parts and Heraldic Items)

A-4. REGULATIONS AND PAMPHLETS.

AFR 50-36, Volume 1	Combat Arms Training Maintenance Program Management
AFR 125-37	Resource Protection Program (PA)
AR 190-11	Physical Security of Weapons, Ammunition and Explosives
AR 385-63	Policies and Procedures for Firing Ammunition for Training, Target Practice and Combat
COMDTINST 8000.2	US Coast Guard Ordnance Manual
DA PAM 25-30	Consolidated Index of Army Publications and Blank Forms
DA PAM 738-750	The Army Maintenance Management System (TAMMS)
DOD 5100.76-M	Physical Security of Sensitive Conventional Arms, Ammunition, and Explosives
OPNAVINST 5530.13	Physical Security Instruction for Sensitive Conventional AA&E
SL-1-2	Marine Corps Index of Publications

A-5. FIELD MANUALS.

FM 3-4	Nuclear, Biological and Chemical (NBC) Protection
FM 3-5	Nuclear, Biological and Chemical (NBC) Decontamination
FM 3-87	Nuclear, Biological and Chemical (NBC) Reconnaissance and Decontamination Operations (How to Fight)
FM 21-11	First Aid for Soldiers
FM 23-35	Pistols and Revolvers

A-6. FORMS

AFTO Form 22	Technical Order System Publications Improvement Report and Reply
AFTO Form 105	Inspection, Maintenance and Firing Data for Ground Weapons
CG 4394	Publications Correction/Change Report
DA Form 2028	Recommended Changes to Publications and Blank Forms
DA Form 2404	Equipment Inspection and Maintenance Worksheet
DA Form 2408-16	Aircraft Component Historical Record
MCO 4855.10	Quality Assurance Report
NAVMC Form 10772	Recommended Changes to Technical Publications
SF 364	Report of Discrepancy (ROD)
SF 368	Quality Deficiency Report (QDR)
DD 250	Material Inspection and Receiving Report

APPENDIX B
MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

B-1. GENERAL.

a. This section provides a general explanation of all maintenance and repair functions authorized at various maintenance categories.

b. The Maintenance Allocation Chart (MAC) in section II designates overall authority and responsibility for the performance of maintenance functions on the identified end item or component. The application of the maintenance functions to the end item or component will be consistent with the capacities and capabilities of the designated maintenance categories.

c. Section III lists the tools and test equipment (both special tools and common tool sets) required for each maintenance function as referenced from section II.

B-2. MAINTENANCE FUNCTIONS. Maintenance functions will be limited to and defined as follows: (except for ammunition MAC[1]).

a. Inspect. To determine the serviceability of an item by comparing its physical and mechanical characteristics with established standards through examination (e.g., by sight, sound, or feel).

b. Test. To verify serviceability by measuring the mechanical characteristics of an item and comparing those characteristics with prescribed standards.

c. Service. Operations required periodically to keep an item in proper operating condition, i.e., to clean (includes decontaminate, when required), preserve, or lubricate.

d. Adjust. To maintain or regulate, within prescribed limits, by bringing into proper or exact position, or by setting the operating characteristics to specified limits.

e. Aline. To adjust specified variable elements of an item to bring about maximum or desired performance.

f. Calibrate. Not applicable.

g. Remove/Install. To remove and install the same item when required to perform service or other maintenance functions. Install may be the act of emplacing, seating, or fixing into position a spare, repair part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.

h. Replace. To remove an unserviceable item and install a serviceable counterpart in its place. "Replace" is authorized by the MAC and is shown as the 3d position code of the SMR code.

[1]Exception is authorized for ammunition MAC to permit the redesignation/redefinition of maintenance function headings to more adequately identify ammunition maintenance functions. The heading designations and definitions will be included in the appropriate technical manual for each category of ammunition.

i. Repair. The application of maintenance services[2], including fault location/troubleshooting[3], removal/installation, and disassembly/assembly[4] procedures and maintenance actions[5] to identify troubles and restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

j. Overhaul. That maintenance effort (service/action) prescribed to restore an item to a completely serviceable/operational condition as required by maintenance standards in appropriate technical publications (i.e., Depot Maintenance Work Requirement (DMWR)). Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.

k. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of materiel maintenance applied to Army equipment.

B-3. EXPLANATION OF COLUMNS IN THE MAC, SECTION II.

a. Column 1, Group Number. Column 1 lists functional group code numbers, the purpose of which is to identify maintenance significant components, assemblies, subassemblies, and modules with the next higher assembly. End item group number shall be "00".

b. Column 2. Component/Assembly. Column 2 contains the names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

c. Column 3. Maintenance Function. Column 3 lists the functions to be performed on the item listed in column 2. (For detailed explanation of these functions, see para B-2.)

d. Column 4, Maintenance Category. Column 4 specifies, by the listing of a work time figure in the appropriate subcolumn(s), the category of maintenance authorized to perform the function listed in column 3. This figure represents the active time required to perform that maintenance function at the indicated category of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance categories, appropriate work time figures will be shown for each category. The work time figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time (including any necessary disassembly/assembly time), troubleshooting/fault location time, and quality assurance/quality control time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the maintenance allocation chart. The symbol designations for the various maintenance categories are as follows:

C	Operator or Crew
O	Unit Maintenance
F	Intermediate Direct Support Maintenance
H	Intermediate General Support Maintenance
L	Specialized Repair Activity (SRA)[6]
D	Depot Maintenance

e. Column 5, Tools and Equipment. Column 5 specifies, by code, those common tool sets (not individual tools) and special tools, and support equipment required to perform the designated function.

[2]Services - Inspect, test, service, adjust, aline, calibrate, and/or replace.
[3]Fault locate/troubleshoot - The process of investigating and detecting the cause of equipment malfunctioning; the act of isolating a fault within a system or unit under test (UUT).
[4]Disassemble/assemble - Encompasses the step-by-step taking apart (or breakdown) of a spare/functional group coded item to the level of its least componency identified as maintenance significant (i.e., assigned an SMR code) for the category of maintenance under consideration.
[5]Actions - Welding, grinding, riveting, straightening, facing, remachining, and/or resurfacing.
[6]This maintenance category is not included in Section II, column (4) of the Maintenance Allocation Chart. To identify functions to this category of maintenance, enter a work time figure in the "H" column of section II, column (4), and use an associated reference code in the remarks column (6). Key the code to Section IV, Remarks, and explain the SRA complete repair application there. The explanatory remark(s) shall reference the specific Repair Parts and Special Tools List (RPSTL) TM which contains additional SRA criteria and the authorized spare/repair parts.

f. Column 6, Remarks. This column shall, when applicable, contain a letter code, in alphabetic order, which shall be keyed to the remarks contained in section IV.

B-4. EXPLANATION OF COLUMNS IN TOOL AND TEST EQUIPMENT REQUIREMENTS, SECTION III.

a. Column 1, Reference Code. The tool and test equipment reference code correlates with a code used in the MAC, section II, column 5.

b. Column 2. Maintenance Category. The lowest category of maintenance authorized to use the tool or test equipment.

c. Column 3, Nomenclature. Name or identification of the tool or test equipment.

d. Column 4. National Stock Number. The National stock number of the tool or test equipment.

e. Column 5. Tool Number. The manufacturer's part number.

B-5. EXPLANATION OF COLUMNS IN REMARKS, SECTION IV.

a. Column 1. Reference Code. The code recorded in column 6, section II.

b. Column 2, Remarks. This column lists information pertinent to the maintenance function being performed as indicated in the MAC, section II.

Section II. MAINTENANCE ALLOCATION CHART FOR M9 PISTOL, 9mm

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIP	(6) REMARKS
			UNIT		INTMED		DEPOT		
			C	O	F	H	D		
00	Pistol 9mm, M9	Inspect	0.2	0.2	0.2			1, 2	
		Test			0.1				See appendix E
		Service	0.1	0.1	0.1				
		Repair		0.1	0.5				
		Overhaul					2.0		
01	Slide & Barrel Assembly	Inspect	0.1	0.1	0.1			2	
		Test			0.1				
		Service	0.1	0.1	0.1				
		Replace			0.1				
		Overhaul					0.5		
0101	Barrel Assembly	Inspect	0.1	0.1	0.1			2	
		Test			0.1				
		Service	0.1	0.1	0.1				
		Replace			0.1				
		Repair			0.1				
		Overhaul					0.1		
0102	Slide Assembly	Inspect	0.1	0.1	0.1		0.1	1, 2	
		Service	0.1	0.1	0.1				
		Repair			0.2				
		Overhaul					0.3		
010201	Slide Assembly w/Rear Sight	Inspect			0.1				
		Repair			0.1				
02	Receiver Assembly	Inspect	0.1	0.1	0.1			1, 2	
		Test			0.1				
		Service	0.1	0.1	0.1				
		Repair		0.1	0.2				
		Overhaul					0.5		
0201	Receiver w/Bushing	Inspect		0.1	0.1			1, 2	
		Repair			0.3				See appendix E
		Overhaul			0.4		0.4		

Section III. TOOLS AND TEST EQUIPMENT REQUIREMENTS FOR M9 PISTOL, 9mm

TOOL OR TEST EQUIPMENT REF CODE	MAINTENANCE LEVEL	NOMENCLATURE	NATIONAL/ NATO STOCK NUMBER	TOOL NUMBER
1	O	Tool Set, Small Arms	5180-00-357-7770	SC 5180-95-CL-A07
2	F	Shop Set, Small Arms Field Maintenance Basic Less Power	4933-00-754-0664	SC 4933-95-CL-A11

APPENDIX C
UNIT AND INTERMEDIATE DIRECT SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL)

Section I. INTRODUCTION

C-1. Scope. This RPSTL lists and authorizes spares and repair parts; special tools; and other special support equipment required for performance of unit and intermediate direct support maintenance of the M9 9mm Semiautomatic Pistol. It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the Source, Maintenance and Recoverability (SMR) codes.

C-2. General. In addition to Section I, Introduction, this Repair Parts and Special Tools List is divided into the following sections:

a. Section II, Repair Parts List. A list of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in ascending figure and item number sequence. Bulk materials are listed by item name in FIG BULK at the end of the section. Repair parts kits on sets are listed separately in their own functional group within section II. Repair parts for repairable special tools are also listed in the section.

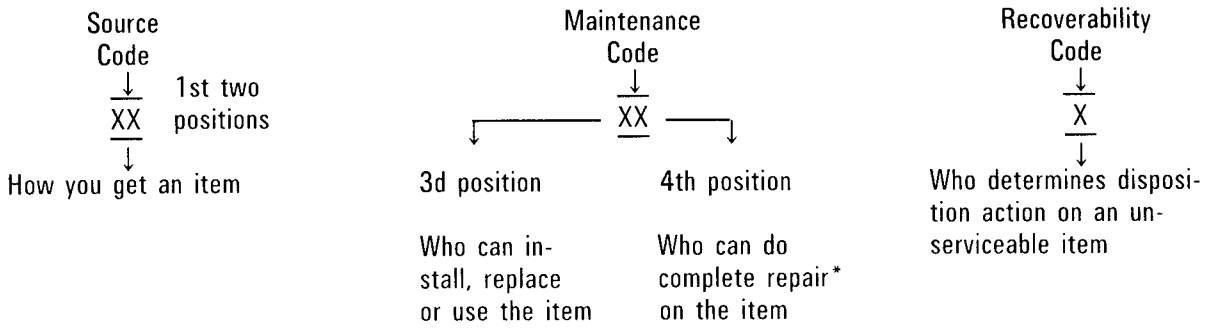
b. Section III, Special Tools List. Not applicable.

c. Section IV, Cross-Reference Indexes. A list, in National Item Identification Number (NIIN) sequence, of all National stock numbered items appearing in the listings, followed by a list in alphanumeric sequence of all part numbers appearing in the listings. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance. The figure and item number index lists figure and item numbers in alphanumeric sequence and cross-references NSN, FSCM and part numbers.

C-3. Explanation of Columns (Sections II and III).

a. ITEM NO. (Column (1)). Indicates the number used to identify items called out in the illustration.

b. SMR CODE (Column (2)). The Source, Maintenance, and Recoverability (SMR) Code is a 5-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instruction, as shown in the following breakout:



*Complete Repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.

(1) Source Code. The source code tells you how to get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanation of source codes follows:

Code	Explanation
PA PB PC** PD PE PF PG	Stocked items; use the applicable NSN to request/requisition items with these source codes. They are authorized to the category indicated by the code entered in the 3d position of the SMR code. ****NOTE:** Items coded PC are subject to deterioration.
KD KF KB	Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance category indicated in the 3d position of the SMR code. The complete kit must be requisitioned and applied.
MO - (Made at unit/ AVUM Level) MF - (Made at Intermediate DS/ AVUM Level) MH - (Made at Intermediate GS Level) ML - (Made at Specialized Repair Act (SRA)) MD - (Made at Depot)	Items with these codes are not to be requested/requisitioned individually. They must be made from bulk material which is identified by the part number in the DESCRIPTION AND USABLE ON CODE (UOC) column and listed in the Bulk Material Group of the repair parts list in this RPSTL. If the item is authorized to you by the 3d position code of the SMR Code, but the source code indicates it is made at a higher level, order the item from the higher level of maintenance.
AO - (Assembled by unit/ AVUM Level) AF - (Assembled by Intermediate DS/AVIM Level) AH - (Assembled by Intermediate GS Category) AL - (Assembled by SRA) AD - (Assembled by Depot)	Items with these codes are not to be requested/requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the level of maintenance indicated by the source code. If the 3d position code of the SMR code authorizes you to replace the item, but the source code indicates the item is assembled at a higher level, order the item from the higher level of maintenance.
XA -	Do not requisition an "XA" - coded item. Order its next higher assembly. (Also, refer to the NOTE below.)
XB -	If an "XB" item is not available from salvage, order it using the FSCM and part number given.
XD -	Item is not stocked. Order an "XD" - coded item through normal supply channels using the FSCM and part number given, if no NSN is available.

NOTE: Cannibalization or controlled exchange, when authorized, may be used as a source of supply for items with the above source codes, except for those source coded "XA" or those aircraft support items restricted by requirements of AR 700-42.

(2) Maintenance Code. Maintenance codes tell you the level(s) of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the SMR Code as follows:

(a) The maintenance code entered in the third position tells you the lowest maintenance level authorized to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to one of the following levels of maintenance.

Code	Application/Explanation
C	Crew or operator maintenance done within unit or aviation unit maintenance.
O	Unit or aviation unit category can remove, replace, and use the item.
F	Intermediate direct support or aviation intermediate level can remove, replace, and use the item.
H	Intermediate general support level can remove, replace, and use the item.
L	Specialized repair activity can remove, replace, and use the item.
D	Depot level can remove, replace, and use the item.

(b) The maintenance code entered in the fourth position tells whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to do complete repair (i.e., perform all authorized repair functions). (NOTE: Some limited repair may be done on the item at a lower level of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.) This position will contain one of the following maintenance codes.

Code	Application/Explanation
O	Unit or aviation unit is the lowest level that can do complete repair of the item.
F	Intermediate direct support or aviation intermediate is the lowest level that can do complete repair of the item.
H	Intermediate general support is the lowest level that can do complete repair of the item.
L	Specialized repair activity is the lowest level that can do complete repair of the item.
D	Depot is the lowest level that can do complete repair of the item.
Z	Nonreparable. No repair is authorized.
B	No repair is authorized. (No parts or special tools are authorized for the maintenance of a "B" coded item.) However, the item may be reconditioned by adjusting, lubricating, etc., at the user level.

(3) Recoverability Code. Recoverability codes are assigned to items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the SMR Code as follows:

Recoverability Codes	Application/Explanation
Z	Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in 3d position of SMR Code.
O	Reparable item. When uneconomically reparable, condemn and dispose of the item at unit or aviation unit level.
F	Reparable item. When uneconomically reparable, condemn and dispose of the item at the intermediate direct support or aviation intermediate level.
H	Reparable item. When uneconomically reparable, condemn and dispose of the item at the intermediate general support level.
D	Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item not authorized below depot level.
L	Reparable item. Condemnation and disposal not authorized below Specialized Repair Activity (SRA).
A	Item requires special handling or condemnation procedures because of specific reasons (e.g., precious metal content, high dollar value, critical or hazardous material). Refer to appropriate manuals/directives for specific instructions.

c. FSCM (Column (3)). The Federal Supply Code for Manufacturer (FSCM) is a 5-digit numeric code which is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

d. PART NUMBER (Column (4)). Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items.

NOTE: When you use a NSN to requisition an item, the item you receive may have a different part number from the part ordered.

e. DESCRIPTION AND USABLE ON CODE (UOC) (Column 5)). This column includes the following information:

(1) The Federal item name and, when required, a minimum description to identify the item.

(2) The physical security classification of the item is indicated by the parenthetical entry (Phy Sec C1 (C) - Confidential, Phy Sec C1 (S) - Secret, Phy Sec C1 (T) - Top Secret).

(3) Items that are included in kits and sets are listed below the name of the kit or set.

(4) Spare/repair parts that make up an assembled item are listed immediately following the assembled item line entry.

(5) Part numbers for bulk materials are referenced in this column in the line item entry for the item to be manufactured/fabricated.

(6) When the item is not used with all serial numbers of the same model, the effective serial numbers are shown on the last line(s) of the description (before UOC).

(7) The usable on code, when applicable (see paragraph 5, Special Information).

(8) In the Special Tools List section, the Basis of Issue (BOI) appears as the last line(s) in the entry for each special tool, and other special support equipment. When density of equipment supported exceeds density spread indicated in the basis of issue, the total authorization is increased proportionately.

(9) The statement "END OF FIGURE" appears just below the last item description in column 5 for a given figure in both section II and section III.

f. QTY (Column (6)). The QTY (quantity per figure column) indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that the quantity is variable and the quantity may vary from application to application.

C-4. Explanation of Columns (Section IV).

a. NATIONAL STOCK NUMBER (NSN) INDEX.

(1) STOCK NUMBER column. This column lists the NSN by National Item Identification Number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN (i.e., $\overbrace{\underbrace{5305\text{-}01\text{-}674\text{-}1487}_{\text{NIIN}}}^{\text{NSN}}$). When using this column to locate an item, ignore the first 4 digits of the NSN. However, the complete NSN should be used when ordering items by stock number.

(2) FIG. column. This column lists the number of the figure where the item is identified/located. The figures are in numerical order in section II and section III.

(3) ITEM column. The item number identifies the item associated with the figure listed in the adjacent FIG. column. This item is also identified by the NSN listed on the same line.

b. PART NUMBER INDEX. Part numbers in this index are listed by part number in ascending alphanumeric sequence (i.e., vertical arrangement of letter and number combination which places the first letter or digit of each group in order A through Z, followed by the numbers 0 through 9 and each following letter or digit in like order).

(1) FSCM column. The Federal Supply Code for Manufacturer (FSCM) is a 5-digit numeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

(2) PART NUMBER column. Indicates the primary number used by the manufacturer (individual, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items.

(3) STOCK NUMBER column. This column lists the NSN for the associated part number and manufacturer identified in the PART NUMBER and FSCM columns to the left.

(4) FIG. column. This column lists the number of the figure where the item is identified/located in sections II and III.

(5) ITEM column. The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

c. FIGURE AND ITEM NUMBER INDEX.

(1) FIG. column. This column lists the number of the figure where the item is identified/located in section II (and IV.)

(2) ITEM column. The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

(3) STOCK NUMBER column. This column lists the NSN for the item.

(4) FSCM column. The Federal Supply Code for Manufacturer (FSCM) is a 5-digit numeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

(5) PART NUMBER column. Indicates the primary number used by the manufacturer (individual, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items.

C-5. Special Information.

a. USABLE ON CODE. The usable on code appears in the lower left corner of the Description column heading. Usable on codes are shown as "UOC: . . . . . ." in the Description column (justified left) on the first line applicable to all models. Identification of the usable on codes used in the RPSTL are:

Code	Used On
PAA	Model M114
PAB	Model M114A
PAC	Model M114B

(These codes and model numbers are examples only.)

b. FABRICATION INSTRUCTIONS. Bulk materials required to manufacture items are listed in the Bulk Material Functional Group of this RPSTL. Part numbers for bulk materials are also referenced in the description column of the line item entry for the item to be manufactured/fabricated.

c. ASSEMBLY INSTRUCTION. Detailed assembly instructions for items source coded to be assembled from component spare/repair parts are found in the RPSTL. Items that make up the assembly are listed immediately following the assembly item entry or reference is made to an applicable figure.

d. KITS. Line item entries for repair parts kits appear in a group in section II (see table of contents).

e. INDEX NUMBERS. Items which have the work BULK in the figure column will have an index number shown in the item number column. This index number is a cross-reference between the National Stock Number/Part Number Index and the bulk material list in section II.

C-6. How to Locate Repair Parts.

a. WHEN NATIONAL STOCK NUMBER OR PART NUMBER IS NOT KNOWN.

(1) First. Using the table of contents, determine the assembly group or subassembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and listings are divided into the same groups.

(2) Second. Find the figure covering the assembly group or subassembly group to which the item belongs.

(3) Third. Identify the item on the figure and use the Figure and Item Number Index to find the NSN.

b. WHEN NATIONAL STOCK NUMBER OR PART NUMBER IS KNOWN.

(1) First. Using the National Stock Number or the Part Number Index, find the pertinent National Stock Number or Part Number. The NSN index is in National Item Identification Number (NIIN) sequence (see C-4.a.(1)). The part numbers in the Part Number index are listed in ascending alphanumeric sequence (see C-4.b.). Both indexes cross-reference you to the illustration/figure and item number of the item you are looking for.

(2) Second. After finding the figure and item number, verify that the item is the one you are looking for, then locate the item number in the repair parts list for the figure.

C-7. Abbreviations. Not applicable.

Section II. REPAIR PARTS LIST

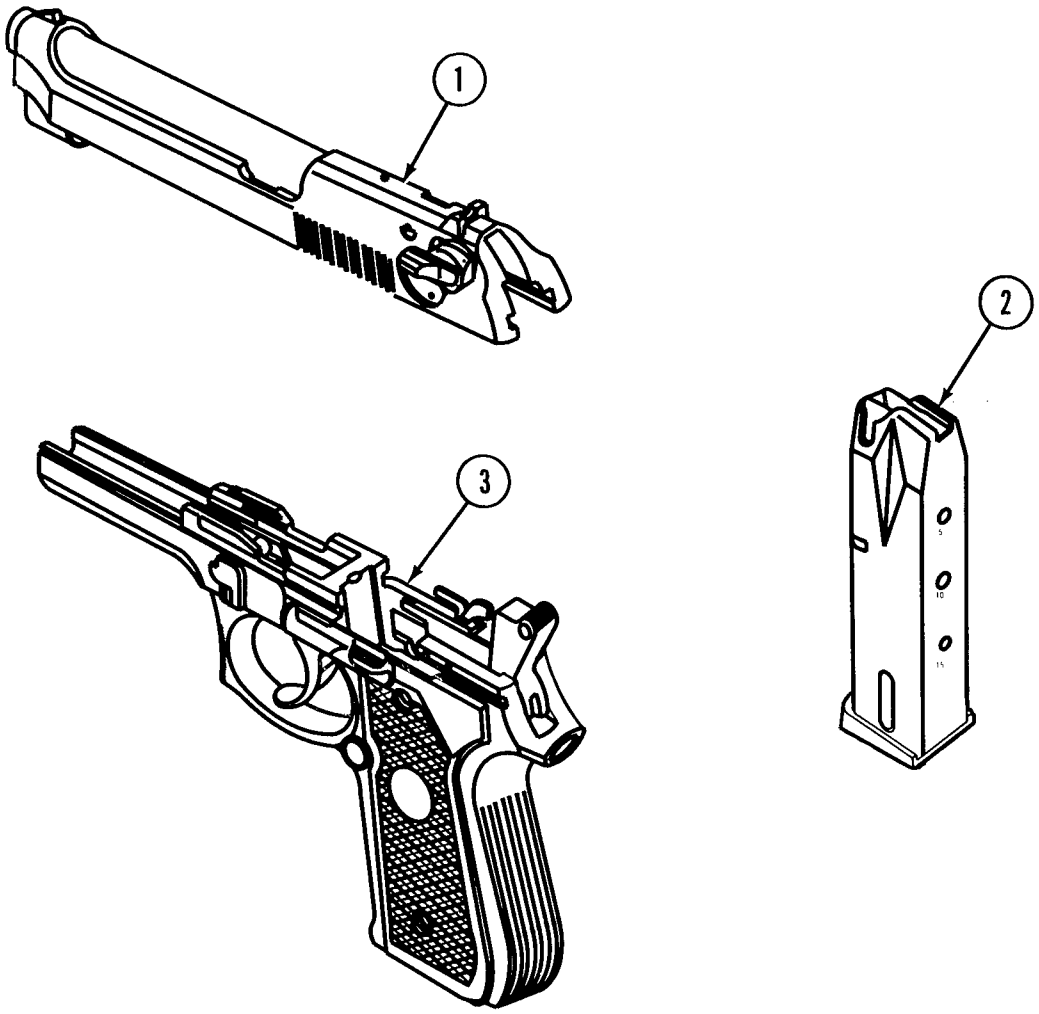


Figure C-1. Pistol 9mm, M9.

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP: 00 FIG. C-1. PISTOL 9MM, M9	
1	AFFFF	19200	9346419	SLIDE & BARREL ASSY	1
2	PACZZ	19200	9346413	MAGAZINE, CARTRIDGE	1
3	XAFDA	19200	9346480	RECEIVER ASSY	1
				END OF FIGURE	

Section II.

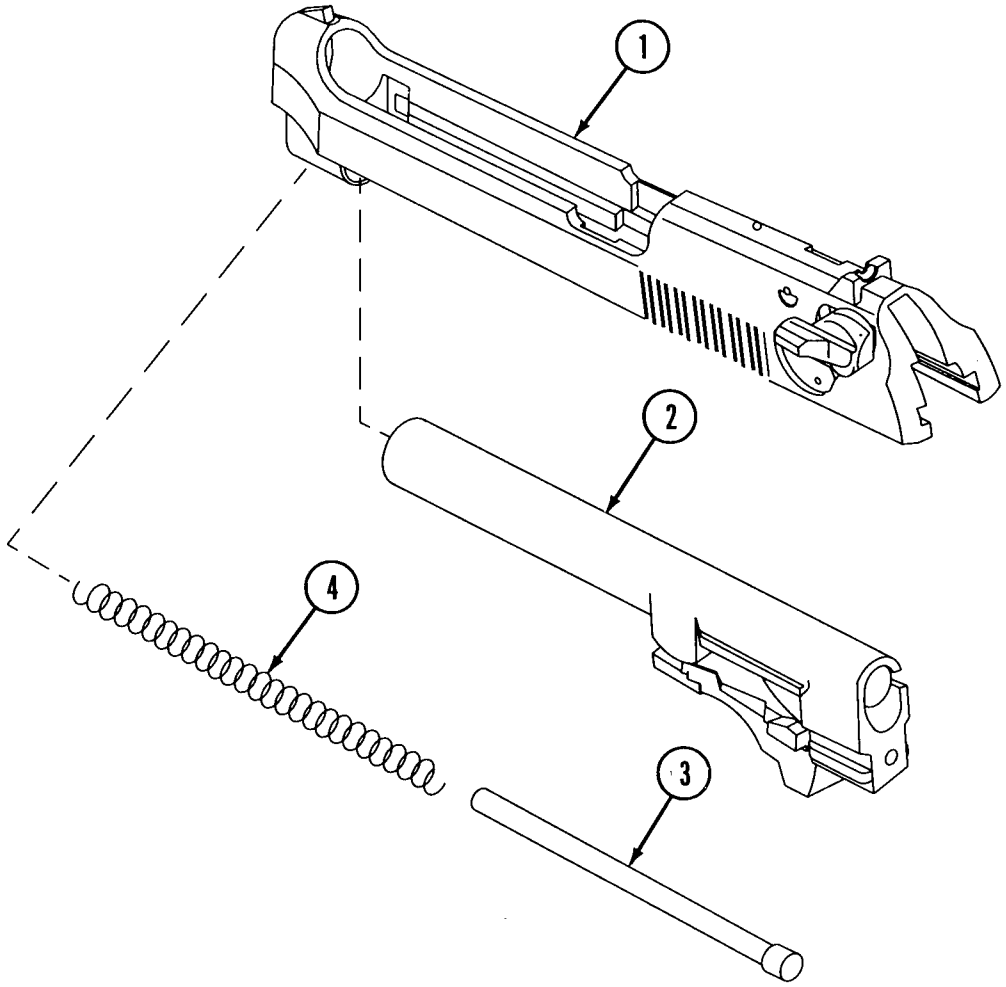


Figure C-2. Slide and barrel assembly.

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP: 01 FIG. C-2. SLIDE AND BARREL ASSEMBLY	
1	AFFFF	19200	9346485	SLIDE ASSY.....	1
2	PAFFF	19200	9346422	BARREL ASSEMBLY.....	1
3	PAFZZ	19200	9346421	GUIDE, RECOIL SPRING	1
4	PAFZZ	19200	9346420	SPRING, HELICAL, COMPRESSION, RECOIL	1
				END OF FIGURE	

Section II.

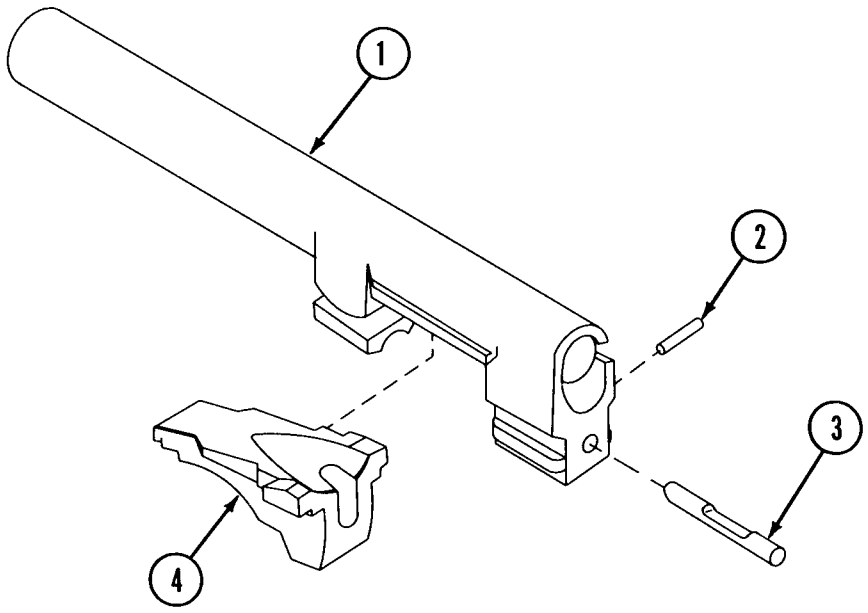


Figure C-3. Barrel assembly.

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP: 0101 FIG. C-3. BARREL ASSEMBLY	
1	XAFFF	19200	9346426	BARREL, PISTOL	1
2	PAFZZ	81349	D63477/8-5P	PIN, SPRING, LOCKING BLOCK PLUNGER	1
3	PAFZZ	19200	9346424	PLUNGER, LOCKING BLOCK.....	1
4	PAFZZ	19200	9346425	BLOCK, LOCKING	1
				END OF FIGURE	

Section II.

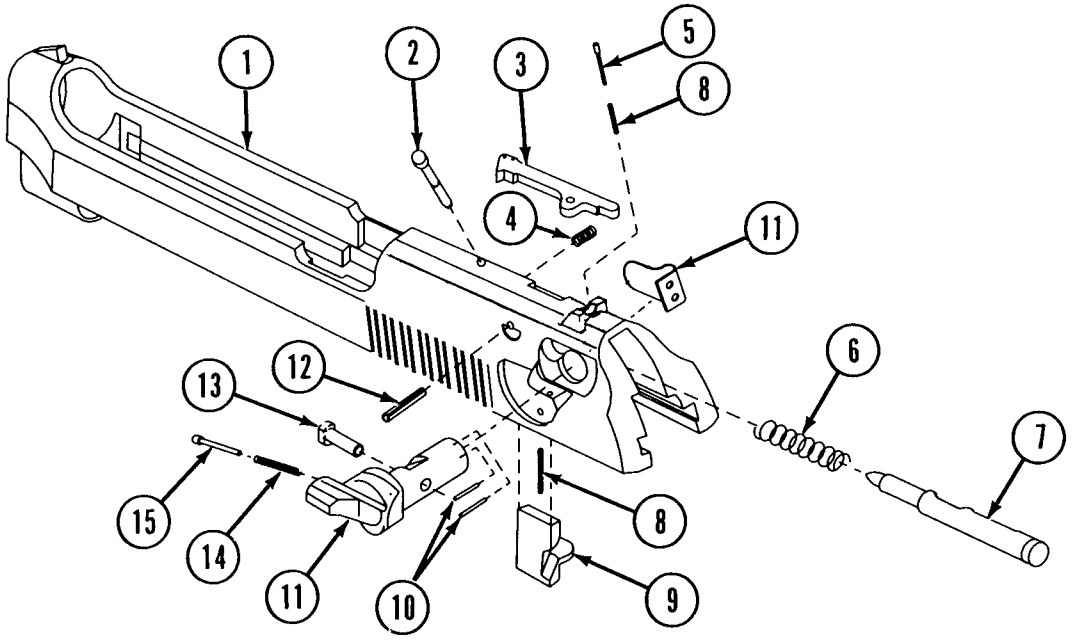


Figure C-4. Slide assembly.

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP: 0102 FIG. C-4. SLIDE ASSEMBLY	
1	PAFFF	19200	9346442	SLIDE, W/REAR SIGHT	1
2	PAFZZ	19200	9346437	PIN, STRAIGHT, HEADED EXTRACTOR	1
3	PAFZZ	19200	9346438	EXTRACTOR	1
4	PAFZZ	19200	9346439	SPRING, HELICAL, COMPRESSION EXTRACTOR	1
5	PAFZZ	19200	9346432	DETENT, TRIGGER BAR	1
6	PAFZZ	19200	9346441	SPRING, HELICAL COMPRESSION FIRING PIN	1
7	PAFZZ	19200	9346440	PIN, FIRING	1
8	PAFZZ	19200	9346428	SPRING, HELICAL, COMPRESSION BLOCK & DETENT	2
9	PAFZZ	19200	9346429	BLOCK, FIRING PIN	1
10	PAFZZ	81348	D63477/5-124P	PIN, SPRING SAFETY LEVER	2
11	PAFZZ	19200	9346486	SAFETY W/LEVER	1
12	PAFZZ	81348	D63477/8-37P	PIN, SPRING FIRING PIN BLOCK	1
13	PAFZZ	19200	9346435	STRIKER, FIRING PIN	1
14	PAFZZ	19200	9346434	SPRING, HELICAL, COMPRESSION SAFETY DETENT	1
15	PAFZZ	19200	9346433	DETENT, SAFETY	1
				END OF FIGURE	

Section II.

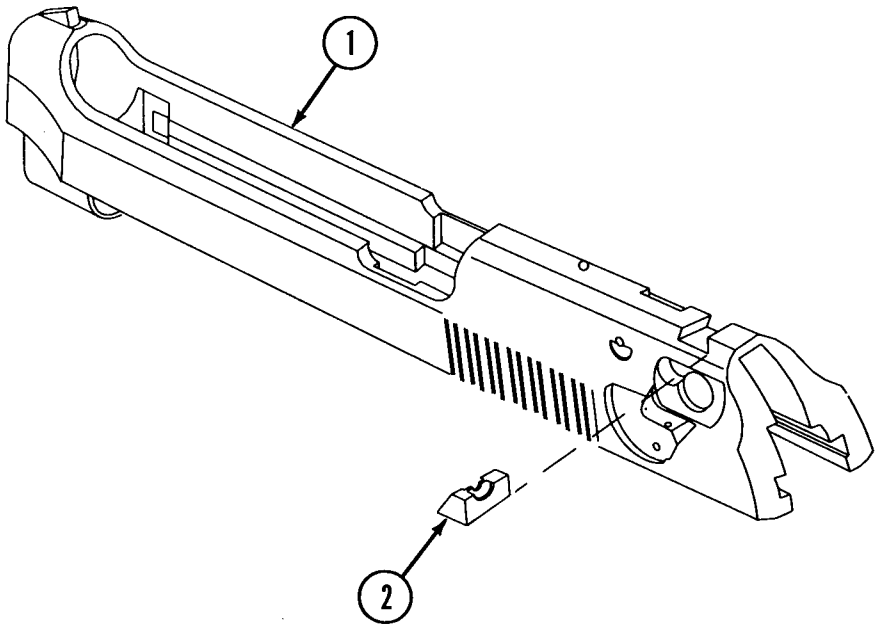


Figure C-5. Slide with rear sight.

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP: 010201 FIG. C-5. SLIDE WITH REAR SIGHT	
1	XAFFF	19200	9346144	SLIDE.....	1
2	PAFZZ	19200	9346443	SIGHT, REAR.....	1
				END OF FIGURE	

Section II.

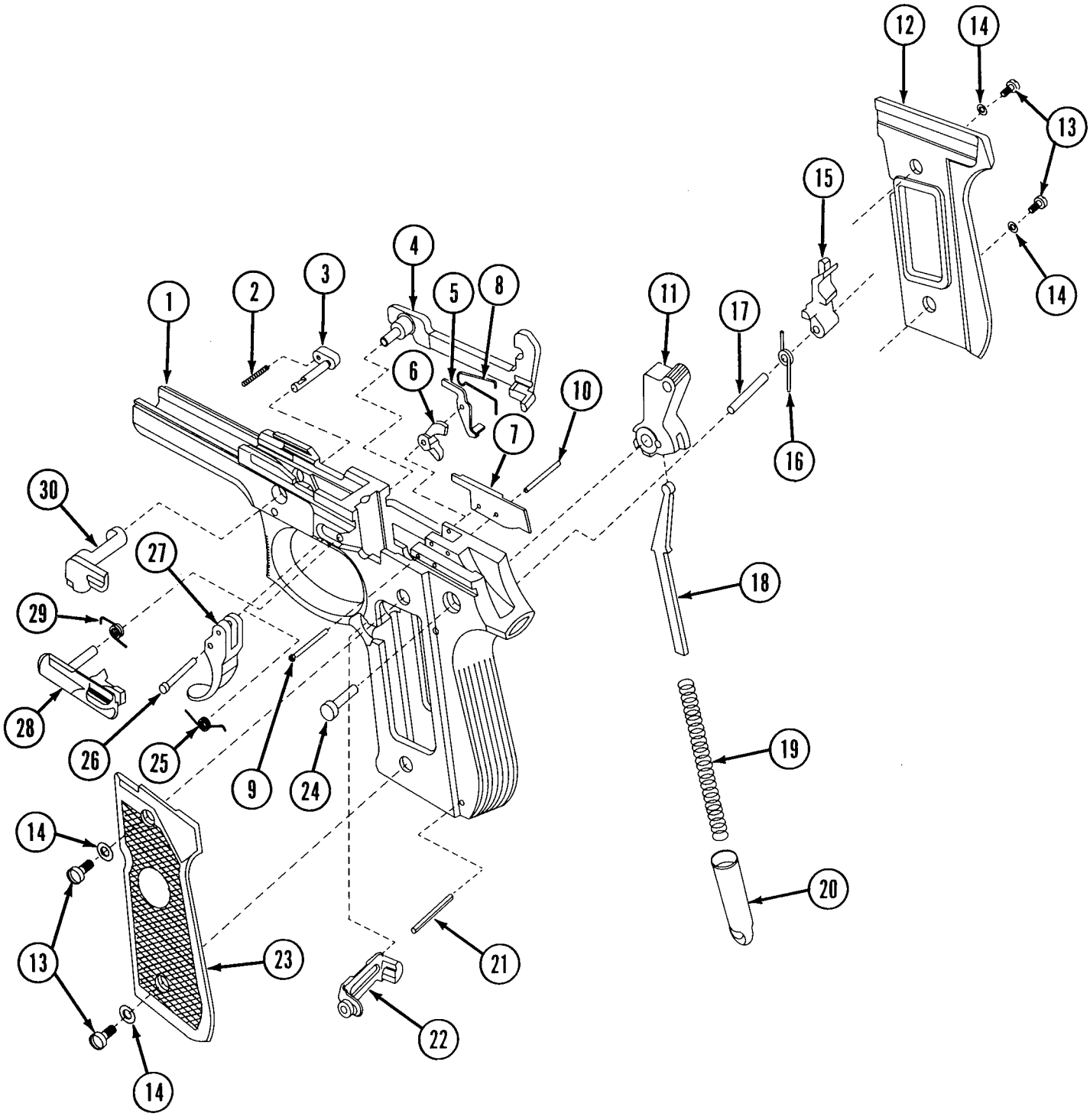


Figure C-6. Receiver assembly.

Section II.

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP: 02 FIG. C-6. RECEIVER ASSEMBLY	
1	XAFDA	19200	9346481	RECEIVER W/BUSHINGS	1
2	PAFZZ	19200	9346447	SPRING, HELICAL, COMPRESSION DISASSEMBLY	1
3	PAFZZ	19200	9346446	BUTTON, DISASSEMBLY	1
4	PAFZZ	19200	9346453	BAR, TRIGGER	1
5	PAFZZ	19200	9346470	LEVER, FIRING PIN BLOCK	1
6	PAFZZ	19200	9346471	LEVER, HAMMER RELEASE	1
7	PAFZZ	19200	9346472	EJECTOR	1
8	PAFZZ	19200	9346452	SPRING, TRIGGER BAR	1
9	PAFZZ	19200	9346469	PIN, STRAIGHT, HEADED, HAMMER RELEASE LEVER	1
10	PAFZZ	81348	D63477/5-170P	PIN, SPRING EJECTOR	1
11	PAFZZ	19200	9346463	HAMMER	1
12	PAOZZ	19200	9346451	GRIP, PISTOL (RIGHT)	1
13	PAOZZ	19200	9346448	SCREW, MACHINE	4
14	PAOZZ	19200	9346449	WASHER, LOCK	4
15	PAFZZ	19200	9346467	SEAR	1
16	PAFZZ	19200	9346466	SPRING, HELICAL, TORSION SEAR	1
17	PAFZZ	19200	9346465	PIN, STRAIGHT, HEADLESS SEAR	1
18	PAFZZ	19200	9346464	STRUT, HAMMER	1
19	PAFZZ	19200	9346461	SPRING, HELCIAL, COMPRESSION MAIN SPRING	1
20	PAFZZ	19200	9346460	LOOP, LANYARD	1
21	PAFZZ	19200	12556375	PIN, SHOULDERED, HEADLESS, LANYARD LOOP	1
22	PAOZZ	19200	9346474	CATCH ASSEMBLY, MAGAZINE	1
23	PAOZZ	19200	9346450	GRIP, PISTOL (LEFT)	1
24	PAFZZ	19200	9346462	PIN, STRAIGHT, HEADED (HAMMER)	1
25	PAFZZ	19200	9346457	SPRING, HELICAL, TORSION TRIGGER	1
26	PAFZZ	19200	9346456	PIN, STRAIGHT, HEADED TRIGGER	1
27	PAFZZ	19200	9346458	TRIGGER	1
28	PAFZZ	19200	9346454	STOP, SLIDE	1
29	PAFZZ	19200	9346455	SPRING, HELICAL, TORSION SLIDE STOP	1
30	PAFZZ	19200	9346445	LEVER, DISASSEMBLY	1
				END OF FIGURE	

Section II.

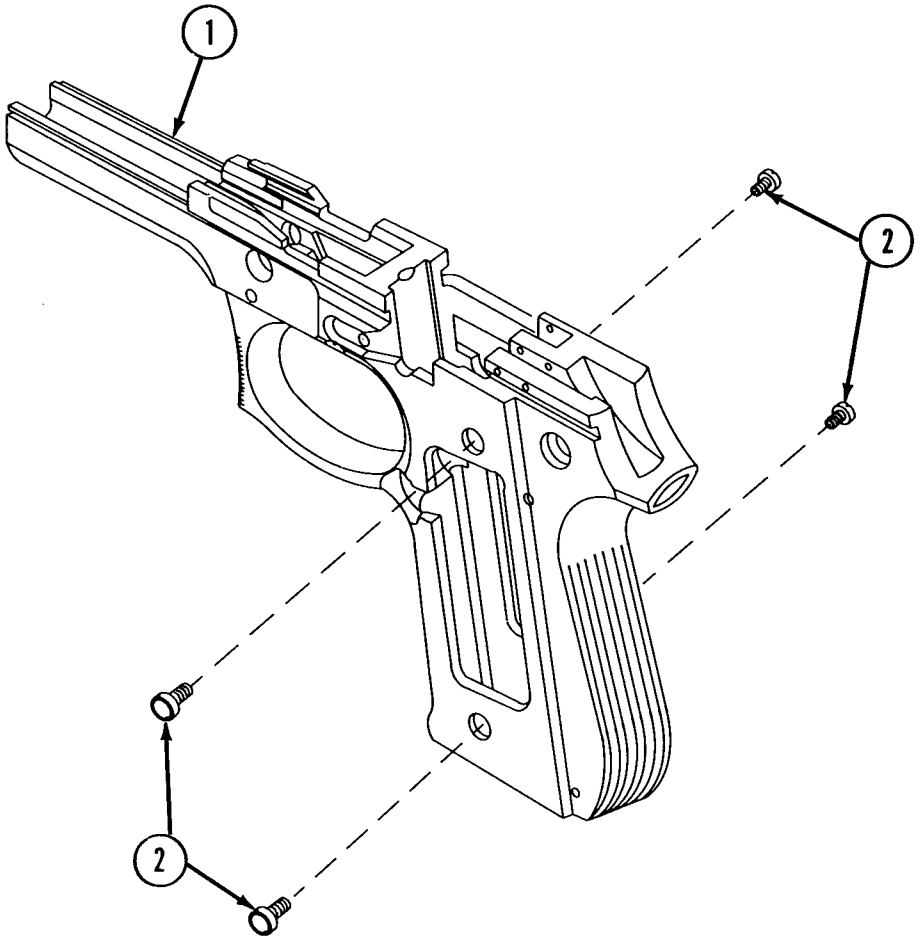


Figure C-7. Receiver with bushings.

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP: 0201 FIG. C-7. RECEIVER WITH BUSHINGS	
1	XADBA	19200	9346479	RECEIVER	1
2	PAFZZ	19200	9346473	BUSHING, GRIP SCREW	4
				END OF FIGURE	

APPENDIX D
EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST

Section I. INTRODUCTION

D-1. SCOPE. This appendix lists expendable/durable supplies and materials you will need to operate and maintain the 9mm pistol. This listing is for informational purposes only and is not authority to requisition the listed items. These items are authorized to you by CTA 50-970, Expendable/Durable Items (Except Medical, Class V, Repair Parts, and Heraldic Items), or CTA 8-100, Army Medical Department Expendable/Durable Items.

D-2. EXPLANATION OF COLUMNS.

a. Column (1) - Item Number. This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the material (e.g., "Use cleaner, lubricant and preservative, CLP, item 5, app D").

b. Column (2) - Level. This column identifies the lowest level of maintenance that requires the listed item.

C - Operator/Crew
O - Unit Maintenance
F - Intermediate Direct Support Maintenance
H - Intermediate General Support Maintenance
L - Specialized Repair Activity (SRA)
D - Depot Maintenance

c. Column (3) - National Stock Number. This is the National stock number assigned to the item; use it to request or requisition the item.

d. Column (4) - Description. Indicates the Federal item name and, if required, a description to identify the item. The last line for each item indicates the Federal Supply Code for Manufacturer (FSCM) in parentheses followed by the part number.

e. Column (5) - Unit of Measure (U/M). Indicates the measure used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr). If the unit of measure differs from the unit of issue, requisition the lowest unit of issue that will satisfy your requirements.

Section II. EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) U/M
1	O	8115-00-935-6531	BOX, PLYWOOD (81348) MIL-B-43666 43 x 31 3/4 x 10 1/2 inches	EA
2	O	8020-00-244-0153	BRUSH, ARTIST'S: Metal ferrule, flat, chisel edge, 7/16 inch w, 1 1/8 inch l, exposed bristle (81348) H-B-241	EA
3	C	1005-00-494-6602	BRUSH, CLEANING, SMALL ARMS: toothbrush (19204) 8448462	EA
4	C	1005-00-716-2132	BRUSH, CLEANING SMALL (Bore Brush) (19205) 7162132	EA
5	O		CLEANER, LUBRICANT AND PRESERVATIVE: GRADE 2 (CLP) (81349)	
		9150-01-054-6453	1 pint bottle, MIL-L-63460	PT
		9150-01-053-6688	1 gal can, MIL-L-63460	GL
6	C	9920-00-292-9946	CLEANER, TOBACCO PIPE: cotton tuft, wire core (89855) DILLS PIPE CLEANER 32 per pk	EA
7	O		CLEANING COMPOUND, SOLVENT: RIFLE BORE CLEANER (RBC) (81349) MIL-C-372, MILC372	
		6850-00-224-6657	8 oz can	OZ
		6850-00-224-6663	1 gal can	GL
8	O	5350-00-221-0872	CLOTH, ABRASIVE, CROCUS (58536) A-A-1206 50 sheet package	SH
9	O	8115-00-183-9496	CONTAINER, FIBERBOARD (81348) PPP-8-636 25 ea bundle - 10 x 6 x 4 inches	EA

Section II. EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST (cont)

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) U/M
10	O	8415-00-823-7457	GLOVES, CHEMICAL AND OIL PROTECTIVE (81348) ZZ-G-381	PR
11	F	6850-00-826-0981	INSPECTION PENETRANT (81349) MIL-I-25135	KT
12	O	9150-00-168-2000	LUBRICANT, SOLID FILM (81349) MIL-L-46147 16 oz aerosol can	OZ
13	O	9150-00-231-6689	LUBRICATING, OIL, P-9 (81348) VV-L-800 1 qt can	QT
14	C	9150-00-292-9689	LUBRICATING OIL, WEAPONS (LAW) (81349) MIL-L-14107 1 qt can	QT
15	O	9150-00-753-4686	LUBRICATING OIL, WEAPONS SEMI-FLUID (LSA) (81349) MIL-L-46000 1 gal can	GL
16	O	8135-00-855-6969	MATERIAL, CUSHIONING (81348) PPP-C-843 167 ft roll	FT
17	O	8135-00-985-7242	PAPER, VOLATILE, PACKAGING (VCI) (81349) MIL-P-3420 36 in. wide, 100 ft roll	FT
18	O	8135-00-242-5610	PAPER WRAPPING (58536) A-A-1797 24 in. wide, 250 ft long	FT
19	C	7920-00-205-1711	RAG, WIPING (58536) A-A-531 50 lb bl	LB

Section II. EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST (cont)

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) U/M
20	C	1005-00-556-4102	ROD, CLEANING, M4 (19204) 5564102	EA
21	O	7930-00-965-4868	SOAP, LAUNDRY (58536) A-A-1375 60 bars to box	EA
22	O	6850-00-281-1985	SOLVENT, DRY CLEANING (02978) P-S-661 1 gal can	GL
23	O	8135-00-286-8565	STEEL STRAPPING, FLAT, 5/8" W (81348) QQ-S-781 100 lb coil	LB
24	C	1005-00-288-3565	SWAB, SMALL ARMS PK (19204) 5019316 1000 per package	EA
25	O	7510-00-146-7767	TAPE, PRESSURE SENSITIVE (58536) A-A-884 2 in. wide, 60 yd roll	EA
26	O	7510-00-266-6712	TAPE, PRESSURE SENSITIVE, MASKING (58536) A-A-883 1 in. wide, 60 yd roll	YD
27	O	7510-00-297-6655	TAPE, PRESSURE SENSITIVE, PAPERBACK, WATER-RESISTANT (58536) A-A-1683 2 in. wide, 120 yd roll	YD

APPENDIX E
ILLUSTRATED LIST OF MANUFACTURED ITEMS

INTRODUCTION.

a. This appendix includes complete instructions for making items authorized to be manufactured or fabricated at intermediate direct support maintenance.

b. A part number index is not applicable.

c. All bulk materials needed for manufacture of an item are listed by NSN or specification number in a list on the illustration.

INDEX

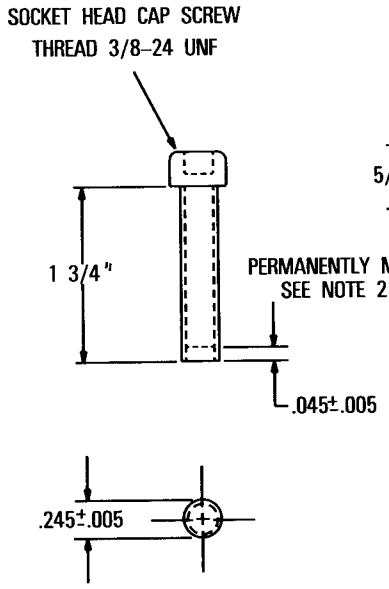


Fig. A

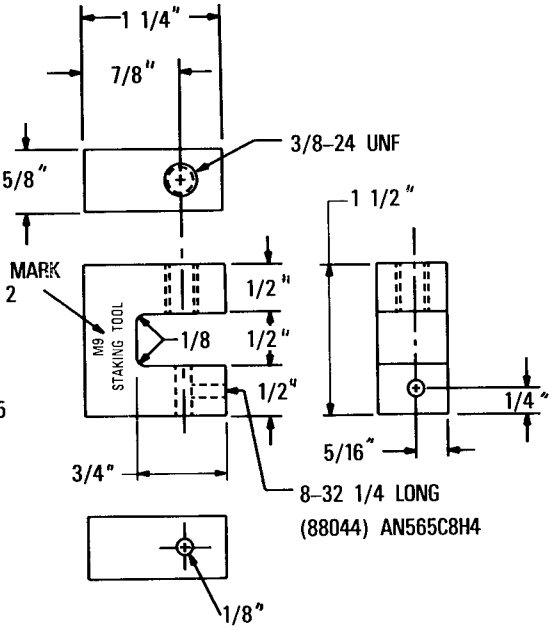


Fig. B

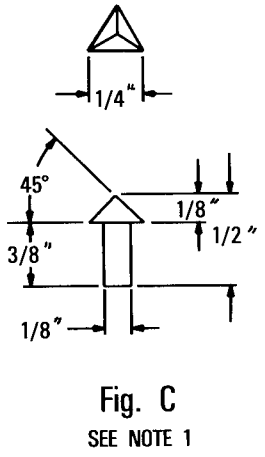


Fig. C
SEE NOTE 1

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.

TOLERANCES ON FRACTIONS ± 1/64; DECIMALS ± .005; ANGLES ± 1°.

MATERIAL, STEEL TYPE GRADE C CLASS W2-09 OR GRADE C, CLASS 62-10. USE NSN 9510-00-541-9528, (81346) ASTM A686 OR EQUIVALENT.

CAPSCREW, NSN 5305-00-225-9091, (96906), MS 90726-36

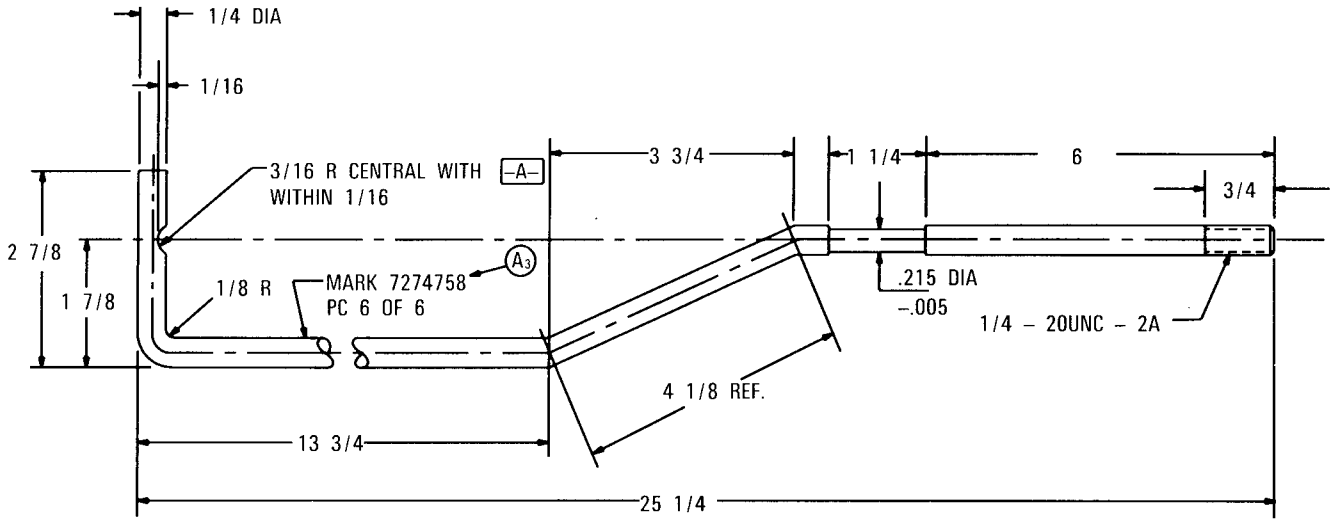
SETSCREW, NSN 5305-00-292-4524, (88044) AN565C8H4

NOTES:

1. HEAT TREAT STAKING POINT TO ROCKWELL C 48-52.

2. PERMANENTLY MARK IN ACCORDANCE WITH MIL-STD-130. CHARACTERS SHALL BE 1/8 INCH HIGH AND LOCATED APPROXIMATELY AS SHOWN.

Figure E-1. M9 grip screw bushing staking tool.



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.

BREAK ALL CORNERS 1/32.

TOLERANCES ON DECIMALS ±.01, ANGLES ±2° FRACTIONS ±1/64

MATERIAL, MILD STEEL TYPE GRADE 1018.
USE NSN 9505-00-228-6209 (81346) ASTM A108.

WASHER, NSN 5310-00-639-7554 (81348) FF-W-92

HEX NUT, NSN 5310-00-761-6882 (96906) MS51967-2

NOTE:

HEAT TREATING NOT REQUIRED.

Figure E-2. Trigger pull test fixture rod.

Section III

SPECIAL TOOLS LIST

There are no special tools for the M9 Pistol.

Section IV

CROSS-REFERENCE INDEXES

NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
1005-01-204-4336	C-2	3	5360-01-206-0934	C-2	4
1005-01-204-4337	C-2	2	5360-01-206-0935	C-4	14
1005-01-204-4339	C-3	3	5360-01-206-0936	C-4	4
1005-01-204-4340	C-3	4	5360-01-206-0937	C-4	6
1005-01-204-4341	C-4	9	5360-01-206-0938	C-6	2
1005-01-204-4343	C-4	5	5310-01-206-0939	C-6	14
1005-01-204-4344	C-4	15	5360-01-206-8592	C-4	8
1005-01-204-4345	C-4	13	1005-01-226-7362	C-4	11
1005-01-204-4347	C-4	3	5315-01-236-0340	C-6	21
1005-01-204-4348	C-6	30	5310-01-245-4183	C-3	2
1005-01-204-4349	C-6	3	5315-01-248-7516	C-6	10
1005-01-204-4350	C-6	8	5315-01-249-4351	C-4	12
1005-01-204-4351	C-6	4	5315-01-251-5415	C-4	10
1005-01-204-4352	C-6	28			
1005-01-204-4354	C-6	20			
1005-01-204-4355	C-6	11			
1005-01-204-4356	C-6	18			
1005-01-204-4357	C-6	17			
1005-01-204-4359	C-6	9			
5360-01-204-4360	C-6	5			
1005-01-204-4361	C-6	6			
1005-01-204-4362	C-6	7			
1005-01-204-4363	C-7	2			
1005-01-204-4364	C-6	22			
5315-01-204-4365	C-6	26			
5315-01-204-4366	C-6	24			
5360-01-204-4367	C-6	19			
5360-01-204-4368	C-6	29			
5360-01-204-4369	C-6	25			
5360-01-204-4370	C-6	16			
5305-01-204-4371	C-6	13			
1005-01-204-4372	C-4	7			
1005-01-204-4373	C-6	23			
1005-01-204-4374	C-6	12			
1005-01-204-4375	C-6	15			
1005-01-204-4376	C-1	2			
1005-01-204-4377	C-6	27			
1005-01-204-4378	C-5	2			
1005-01-206-0930	C-4	1			
5315-01-206-0931	C-4	2			

Section IV

CROSS-REFERENCE INDEXES

PART NUMBER INDEX

FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
81348	D63477/5-124P	5315-01-251-5415	C-4	10
81348	D63477/5-170P	5315-01-248-7516	C-6	10
81348	D63477/8-37P	5315-01-249-4351	C-4	12
81349	D63477/8-5P	5315-01-245-4183	C-3	2
19200	12556375	5315-01-236-0340	C-6	21
19200	9346413	1005-01-204-4376	C-1	2
19200	9346419		C-1	1
19200	9346420	5360-01-206-0934	C-2	4
19200	9346421	1005-01-204-4336	C-2	3
19200	9346422	1005-01-204-4337	C-2	2
19200	9346424	1005-01-204-4339	C-3	3
19200	9346425	1005-01-204-4340	C-3	4
19200	9346426		C-3	1
19200	9346428	5360-01-206-8592	C-4	8
19200	9346429	1005-01-204-4341	C-4	9
19200	9346432	1005-01-204-4343	C-4	5
19200	9346433	1005-01-204-4344	C-4	15
19200	9346434	5360-01-206-0935	C-4	14
19200	9346435	1005-01-204-4345	C-4	13
19200	9346437	5315-01-206-0931	C-4	2
19200	9346438	1005-01-204-4347	C-4	3
19200	9346439	5360-01-206-0936	C-4	4
19200	9346440	1005-01-204-4372	C-4	7
19200	9346441	5360-01-206-0937	C-4	6
19200	9346442	1005-01-206-0930	C-4	1
19200	9346443	1005-01-204-4378	C-5	2
19200	9346444		C-5	1
19200	9346445	1005-01-204-4348	C-6	30
19200	9346446	1005-01-204-4349	C-6	3
19200	9346447	5360-01-206-0938	C-6	2
19200	9346448	5305-01-204-4371	C-6	13
19200	9346449	5310-01-206-0939	C-6	14
19200	9346450	1005-01-204-4373	C-6	23
19200	9346451	1005-01-204-4374	C-6	12
19200	9346452	1005-01-204-4350	C-6	8
19200	9346453	1005-01-204-4351	C-6	4
19200	9346454	1005-01-204-4352	C-6	28
19200	9346455	5360-01-204-4368	C-6	29
19200	9346456	5315-01-204-4365	C-6	26
19200	9346457	5360-01-204-4369	C-6	25
19200	9346458	1005-01-204-4377	C-6	27
19200	9346460	1005-01-204-4354	C-6	20
19200	9346461	5360--01-204-4367	C-6	19
19200	9346462	5315-01-204-4366	C-6	24
19200	9346463	1005-01-204-4355	C-6	11
19200	9346464	1005-01-204-4356	C-6	18

Section IV

CROSS-REFERENCE INDEXES

PART NUMBER INDEX

FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
19200	9346465	1005-01-204-4357	C-6	17
19200	9346466	5360-01-204-4370	C-6	16
19200	9346467	1005-01-204-4375	C-6	15
19200	9346469	1005-01-204-4359	C-6	9
19200	9346470	5360-01-204-4360	C-6	5
19200	9346471	1005-01-204-4361	C-6	6
19200	9346472	1005-01-204-4362	C-6	7
19200	9346473	1005-01-204-4363	C-7	2
19200	9346474	1005-01-204-4364	C-6	22
19200	9346479		C-7	1
19200	9346480		C-1	3
19200	9346481		C-6	1
19200	9346485		C-2	1
19200	9346486	1005-01-226-7362	C-4	11

Section IV

CROSS-REFERENCE INDEXES

FIGURE AND ITEM NUMBER INDEX

FIG	ITEM	STOCK NUMBER	FSCM	PART NUMBER
C-1	1		19200	9346419
C-1	2	1005-01-204-4376	19200	9346413
C-1	3		19200	9346480
C-2	1		19200	9346485
C-2	2	1005-01-204-4337	19200	9346422
C-2	3	1005-01-204-4336	19200	9346421
C-2	4	5360-01-206-0934	19200	9346420
C-3	1		19200	9346426
C-3	2	5315-01-245-4183	81349	D63477/8-5P
C-3	3	1005-01-204-4339	19200	9346424
C-3	4	1005-01-204-4340	19200	9346425
C-4	1	1005-01-206-0930	19200	9346442
C-4	2	5315-01-206-0931	19200	9346437
C-4	3	1005-01-204-4347	19200	9346438
C-4	4	5360-01-206-0936	19200	9346439
C-4	5	1005-01-204-4343	19200	9346432
C-4	6	5360-01-206-0937	19200	9346441
C-4	7	1005-01-204-4372	19200	9346440
C-4	8	5360-01-206-8592	19200	9346428
C-4	9	1005-01-204-4341	19200	9346429
C-4	10	5315-01-251-5415	81348	D63477/5-124P
C-4	11	1005-01-226-7362	19200	9346486
C-4	12	5315-01-249-4351	81348	D63477/8-37P
C-4	13	1005-01-204-4345	19200	9346435
C-4	14	5360-01-206-0935	19200	9346434
C-4	15	1005-01-204-4344	19200	9346433
C-5	1		19200	9346444
C-5	2	1005-01-204-4378	19200	9346443
C-6	1		19200	9346481
C-6	2	5360-01-206-0938	19200	9346447
C-6	3	1005-01-204-4349	19200	9346446
C-6	4	1005-01-204-4351	19200	9346453
C-6	5	5360-01-204-4360	19200	9346470
C-6	6	1005-01-204-4361	19200	9346471
C-6	7	1005-01-204-4362	19200	9346472
C-6	8	1005-01-204-4350	19200	9346452
C-6	9	1005-01-204-4359	19200	9346469
C-6	10	5315-01-248-7516	81348	D63477/5-170P
C-6	11	1005-01-204-4355	19200	9346463
C-6	12	1005-01-204-4374	19200	9346451

Section IV

CROSS-REFERENCE INDEXES

FIGURE AND ITEM NUMBER INDEX

FIG	ITEM	STOCK NUMBER	FSCM	PART NUMBER
C-6	13	5305-01-204-4371	19200	9346448
C-6	14	5310-01-206-0939	19200	9346449
C-6	15	1005-01-204-4375	19200	9346467
C-6	16	5360-01-204-4370	19200	9346466
C-6	17	1005-01-204-4357	19200	9346465
C-6	18	1005-01-204-4356	19200	9346464
C-6	19	5360-01-204-4367	19200	9346461
C-6	20	1005-01-204-4354	19200	9346460
C-6	21	5315-01-236-0340	19200	12556375
C-6	22	1005-01-204-4364	19200	9346474
C-6	23	1005-01-204-4373	19200	9346450
C-6	24	5315-01-204-4366	19200	9346462
C-6	25	5360-01-204-4369	19200	9346457
C-6	26	5315-01-204-4365	19200	9346456
C-6	27	1005-01-204-4377	19200	9346458
C-6	28	1005-01-204-4352	19200	9346454
C-6	29	5360-01-204-4368	19200	9346455
C-6	30	1005-01-204-4348	19200	9346445
C-7	1		19200	9346479
C-7	2	1005-01-204-4363	19200	9346473

ALPHABETICAL INDEX

ALPHABETICAL INDEX (cont)

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CHANGE: "Automatic" to read "semiautomatic" in the first sentence.

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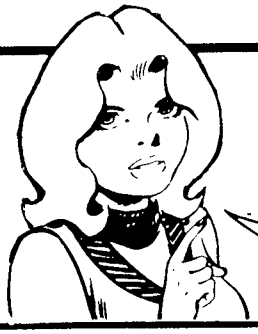

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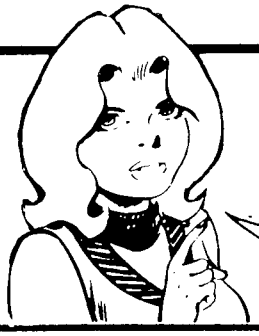

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THE METRIC SYSTEM AND EQUIVALENTS

LINEAR MEASURE

1 Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches
1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches
1 Kilometer = 1000 Meters = 0.621 Miles

WEIGHTS

1 Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces
1 Kilogram = 1000 Grams = 2.2 Lb
1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces
1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

SQUARE MEASURE

1 Sq Centimeter = 100 Sq Millimeters = 0.155 Sq Inches
1 Sq Meter = 10,000 Sq Centimeters = 10.76 Sq Feet
1 Sq Kilometer = 1,000,000 Sq Meters = 0.386 Sq Miles

CUBIC MEASURE

1 Cu Centimeter = 1000 Cu Millimeters = 0.06 Cu Inches
1 Cu Meter = 1,000,000 Cu Centimeters = 35.31 Cu Feet

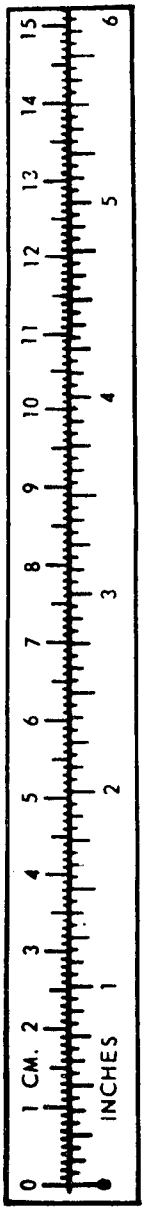
TEMPERATURE

$5/9\ (^0F - 32) = {}^0C$
212^0 Fahrenheit is equivalent to 100^0 Celsius
90^0 Fahrenheit is equivalent to 32.2^0 Celsius
32^0 Fahrenheit is equivalent to 0^0 Celsius
$9/5\ C^0 + 32 = F^0$

APPROXIMATE CONVERSION FACTORS

TO CHANGE	TO	MULTIPLY BY
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	0.914
Miles	Kilometers	1.609
Square Inches	Square Centimeters	6.451
Square Feet	Square Meters	0.093
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	0.405
Cubic Feet	Cubic Meters	0.028
Cubic Yards	Cubic Meters	0.765
Fluid Ounces	Milliliters	29.573
Pints	Liters	0.473
Quarts	Liters	0.946
Gallons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.454
Short Tons	Metric Tons	0.907
Pound-Feet	Newton-Meters	1.356
Pounds per Square Inch	Kilopascals	6.895
Miles per Gallon	Kilometers per Liter	0.425
Miles per Hour	Kilometers per Hour	1.609

TO CHANGE	TO	MULTIPLY BY
Centimeters	Inches	0.394
Meters	Feet	3.280
Meters	Yards	1.094
Kilometers	Miles	0.621
Square Centimeters	Square Inches	0.155
Square Meters	Square Feet	10.764
Square Meters	Square Yards	1.196
Square Kilometers	Square Miles	0.386
Square Hectometers	Acres	2.471
Cubic Meters	Cubic Feet	35.315
Cubic Meters	Cubic Yards	1.308
Milliliters	Fluid Ounces	0.034
Liters	Pints	2.113
Liters	Quarts	1.057
Liters	Gallons	0.264
Grams	Ounces	0.035
Kilograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pound-Feet	0.738
Kilopascals	Pounds per Square Inch	0.145
Kilometers per Liter	Miles per Gallon	2.354
Kilometers per Hour	Miles per Hour	0.621



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